

---

# CENTRAL BATTERY SYSTEMS

---

FEATURES OF CENTRAL BATTERY SYSTEMS	10
ADDRESSABLE 230 V CENTRAL BATTERY SYSTEMS   TKT65C, TKT66C, TKT67C, TKT68C	14
230 V CENTRAL BATTERY SYSTEMS   TKT65B	22
24 V CENTRAL BATTERY SYSTEMS   TKT31, TKT41	24
ACCESSORIES FOR CENTRAL BATTERY SYSTEMS	26
SWITCH CONTROLLER   TST28, TST85	32
LOCAL CONTROLLER   TS906, TST68	34
SEPARATE ADDRESS MODULES   TS982, TST96	36
INTELLIGENT CONTROLLER   TST88	38
CENTRAL MONITORING OPTIONS   WEBCM & WEBACM, ACM, BACNET, LON, BCM	39

---

# FEATURES OF CENTRAL BATTERY SYSTEMS



Central Battery System		TKT3122	TKT41xx	TKT65xxB
<b>Basic information</b>				
Nominal Supply voltage		1~ N/PE 230 VAC	1~ N/PE 230 VAC	1~ N/PE 230 VAC
Output voltage, mains supply		24 VAC	24 VAC	230 VAC
Output voltage, battery supply		24 VDC	24 VDC	216 VDC
Battery voltage		24 VDC	24 VDC	216 VDC
Max. battery capacity		24 Ah	100 Ah	65 Ah
Max. output power, maintained		250 VA	1050 VA	1500 VA-2580 VA
Max. output power, maintained + non-maintained		290 W	1370 W	2000 W-6000 W
Amount of output circuits		4	8-16	6-24
Max. output power / circuit		120 VA / 190 W	120 VA / 190 W	250 VA / W
Connection of circuits in parallel		—	—	—
<b>Features</b>				
Self-Testing of Central Battery System		—	—	—
Addressable testing of luminaires		—	—	—
Circuit Monitoring		—	—	—
<b>Interior optional features for Central Battery System</b>				
Integrated printer		—	—	—
LCD Display		—	—	—
LON Interface		—	—	—
BACnet Interface		—	—	—
ACM Interface (RS-485)		—	—	—
WebCM / WebACM Interface (Ethernet)		—	—	—
BCM Interface		TST1811	TST1811	TST1811
<b>Compatibility of external system modules</b>				
Local Controller		—	—	x
Switch Controller		—	—	x
Address module		—	—	x
Intelligent Controller Interface		—	—	—

\*) TKx66xxCFx = three phase input

\*\*) Circuits can be connected in parallel to increase the output power up to 700 VA / W or 1400 VA / W



TKT65xxC	TKT65xxCP	TKT66xxC(F/P)	TKT67xxC	TKT68xxC
1~ N/PE 230 VAC	1~ N/PE 230 VAC	1~ N/PE 220-240 VAC *)	3~ N/PE 220-240/380-415 VAC	1~ N/PE 220-240 VAC
230 VAC	230 VAC	220-240 VAC	220-240 VAC	220-240 VAC
216 VDC	216 VDC	216 VDC	216 VDC	216 VDC
216 VDC	216 VDC	216 VDC	216 VDC	216 VDC
65 Ah	65 Ah	65 Ah	450 Ah	65 Ah
2000 VA-2580 VA	2000 VA-2580 VA	2580 VA	5600 VA-19600 VA	2580 VA
2000 W-6000 W	2000 W-6000 W	2800 W-6000 W	5600 W-19600 W	2800 W-6000 W
8-24	8-24	8-24	16-56	8-24
250 VA / W	250 VA / W	350 VA / W 700 VA / W**) 1400 VA / W***)	350 VA / W 700 VA / W**) 1400 VA / W***)	350 VA / W 700 VA / W**) 1400 VA / W***)
—	—	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
TST6531	TST6531	TST6631	TST6731	TST6831
TST6532	TST6532	TST6632	TST6732	TST6832
TST6522	TST6522	TST6622	TST6722	TST6822
TST6501	TST6501	TST6601	TST6701	TST6823
TST6521	TST6521	TST6621	TST6721	TST6821
TST6524	TST6524	TST6624	TST6624	TST6824
TST1811C	TST1811C	TST1811D	TST1811E	TST1811F
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
TST6551, TST6552, TST6553	TST6551, TST6552, TST6553	TST6651, TST6652, TST6653	TST6752, TST6753, TST6754, TST6755, TST6756, TST6757	TST6851, TST6852, TST6853

# ADDRESSABLE TAPSA CONTROL CENTRAL BATTERY SYSTEMS

The addressable testing of Tapsa Control Central Battery Systems, together with a wide selection of Central Monitoring options, offers considerable savings in Emergency Lighting system maintenance and service.

The addressable Central Battery Systems offer effective solutions, for supplying a large quantity of luminaires. They are suited for small and large premises, depending on the type of the Central Battery System. A maximum of 12-32 addressable luminaires can be connected to one luminaire circuit, depending on the type of the Central Battery System.

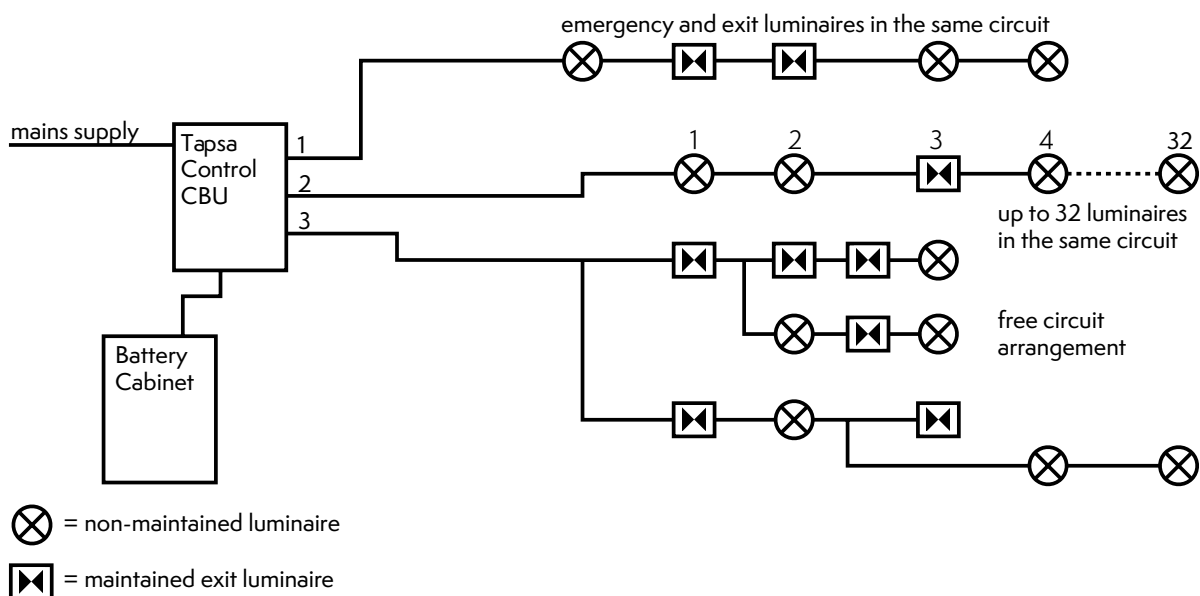
In addition to the normal Emergency Lighting functions, the addressable Central Battery Systems in the Tapsa Control series make it possible to test automatically the condition of the central unit itself, and the luminaires connected to it. The testing of the luminaires is based on individual addresses, and the communication is by means of the power supply cables. Thus, there is no need for any separate

data cabling between the luminaires. The luminaires must be addressable, of the Teknoware products with the letter K in the end, or they must have a separate address module. Utilisation of these luminaires also enables the connection of maintained and non-maintained Emergency and Exit Lights to the same luminaire circuit, and allows the monitoring of the local supply, using Teknoware Local Controller, or Intelligent Controller system.

The addressable Tapsa Control Central Battery Systems include all the basic functions, required by the standard EN50171. Moreover, the following additional features, among others, are included:

- The system is self-learning, which enables automatic configuration during the commissioning.
- The system performs an automatic luminaire test once every day, or week, and a battery duration test once every six months.

- In addition to the scheduled tests, the condition of the batteries is monitored continuously.
- They are fully compatible with Teknoware's Local Controller and Switch Controller, as well as Intelligent Controller.
- User can program battery operation to continue from 1 to 15 minutes, after the electric power has been restored



## COMPONENTS OF THE ADDRESSABLE TAPSA CONTROL CENTRAL BATTERY SYSTEMS



Addressable Central Battery System, e.g. TKT6716C



Battery cabinet(s) and battery cables for batteries according to load of luminaires



Addressable exit and emergency lights (K-letter at the end of the product code), e.g. TWT8051WK or TWT1451WK

# TAPSA CONTROL TKT67xxC



Central Battery Systems in the TKT67 series offer effective solutions for supplying a large quantity of luminaires. They are especially suited for large premises.

The central unit input voltage is 220-240 VAC. The output voltage is 220-240 VAC in normal mode and 216 VDC in battery mode. The battery voltage is 216 V, which is achieved by connecting eighteen 12 volt batteries in series.

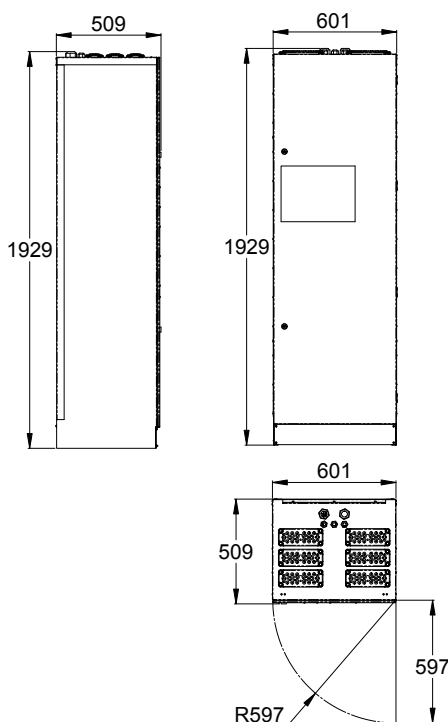
In addition to the normal emergency lighting functions, Central Battery Systems in the Tapsa Control TKT67C

series make it possible to test automatically the condition of the central unit itself and the luminaires connected to it. The testing of luminaires is based on individual addresses and the communication is by means of the power supply cables. Thus there is no need for any separate data cabling between the luminaires. The luminaires must be addressable, of the Teknoware model ending in K, or they must have a separate address module. Utilisation of the luminaires also enables the connection of maintained and non-maintained lights to the same circuit and allows local supply monitoring

using Teknoware Local Controller, or Intelligent Controller, which can also be used to control the non-maintained emergency lights.

These Central Battery Systems have, depending on the model, either 16, 24, 32, 40, 48 or 56 output circuits, which can be set to function as maintained or non-maintained. A maximum of 32 addressable luminaires can be connected to one circuit. Circuits can also be connected in parallel to increase the output power with the following changeover module outputs possible: 8 x 350 VA, 4 x 700 VA or 2 x 1400 VA.

## DIMENSIONS



## TYPE OF THE CBS

Product code	Max input power (mains)	Number of circuits / Outputs	Max load, maintained lights	Max total load 1-3 h durations	Weight (kg)
TKT6716C	8450 VA	16 circuits each 350 W 2 x (8x350 W / 4x700 W / 2x1400 W)	5600 VA	5600 W	120,0
TKT6724C	14000 VA	24 circuits each 350 W 3 x (8x350 W / 4x700 W / 2x1400 W)	8400 VA	8400 W	121,0
TKT6732C	16800 VA	32 circuits each 350 W 4 x (8x350 W / 4x700 W / 2x1400 W)	11200 VA	11200 W	122,0
TKT6740C	19600 VA	40 circuits each 350 W 5 x (8x350 W / 4x700 W / 2x1400 W)	14000 VA	14000 W	123,0
TKT6748C	25150 VA	48 circuits each 350 W 6 x (8x350 W / 4x700 W / 2x1400 W)	16800 VA	16800 W	124,0
TKT6756C	27950 VA	56 circuits each 350 W 7 x (8x350 W / 4x700 W / 2x1400 W)	19600 VA	19600 W	125,0

**Output voltage:** 230 V AC/DC | **Batteries :** 18 x 12 V (216 V) | **Max battery capacity:** 450 Ah  
**Nominal supply voltage:** 3~ N/PE 220-240/380-415 VAC, 50/60 Hz | **Required short circuit current,** when using 2,5 A fuse, applying 0,4 s tripping time: 10 A  
**Max load inrush current:** 350 W circuit (1 circuit): 120 A/1 ms, 700 W circuit (2 circuits parallel): 250 A/1 ms, 1400 W circuit (4 circuits parallel): 300 A/1 ms

## BATTERIES (18 x TEAxx / xxAh)

Product code	Battery capacity	Max load, 1 h operation time	Max load, 3 h operation time	Battery cabinet	Battery cable	Dimensions of the battery	Weight of the battery (kg)
TEA024	65 Ah	7500 W	3340 W	TKT6500(P) x 3	XJ997E	350 x 166 x 174	22,8
TEA024B	100 Ah	11780 W	5050 W	TKT6500(P) x 3	XJ997E	327 x 168 x 210	33,5
TEA024D	150 Ah	17670 W	7580 W	N/A		485 x 172 x 240	47,0
TEA024C	200 Ah	19600 W	10010 W	N/A			
	300 Ah ( 2 x 150 Ah)		15160 W	N/A			
	400 Ah ( 2 x 200 Ah)		19600 W	N/A			

| A 10 % reserve is recommended for the loads (W) mentioned in the table.

## BATTERY CABINETS

Product code	Battery capacity	Protection rating	Weight (kg)
TKT6500	6 x 12 V / 100 Ah	IP20	28,0
TKT6500P	6 x 12 V / 100 Ah	IP34	35,0

## BATTERY CABLES

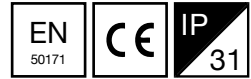
Product code	Length of the battery cable (m)	For
XJ997E	3,5	For three TKT6500 battery cabinets

| Please note a peeling reserve in the length of the battery cable

## OPTIONAL FEATURES

Product code	Product description	For
TST6731	Integrated Printer	TKT67xxC
TST6732	LCD Display Module	TKT67xxC
TST6752	IC Interface for 16 circuits each 350 W	TKT6716C
TST6753	IC Interface for 24 circuits each 350 W	TKT6724C
TST6754	IC Interface for 32 circuits each 350 W	TKT6732C
TST6755	IC Interface for 40 circuits each 350 W	TKT6740C
TST6756	IC Interface for 48 circuits each 350 W	TKT6748C
TST6757	IC Interface for 56 circuits each 350 W	TKT6756C
<b>Central monitoring options:</b>		
TST6722	LON Interface	TKT67xxC
TST6701	BACnet Interface	TKT67xxC
TST6721	ACM Interface	TKT67xxC
TST6724	WebCM/ WebACM Interface	TKT67xxC
TST1811E	BCM Interface	TKT67xxC

# TAPSA CONTROL TKT68xxCx



230 V  
ADDRESSABLE  
CENTRAL  
BATTERY  
SYSTEM



A MAXIMUM  
OF 32  
ADDRESSABLE  
LUMINAIRES /  
ONE CIRCUIT

NO SEPARATE  
BATTERY  
CABINET  
NEEDED

Central Battery Systems in the TKT68C series offer effective and space-saving solutions for supplying a moderate quantity of luminaires. They are especially suited for mid-sized and large premises where it is desirable to divide the central battery system into multiple independent regions.

The central unit input voltage is 220-240 VAC, except for three phase input models (that end in letter F) the input voltage, of which is 400 VAC between the phases. The output voltage is 220-240 VAC in normal mode and 216 VDC in battery mode. The battery voltage is 216 V, which is achieved by connecting eighteen 12 volt batteries in series.

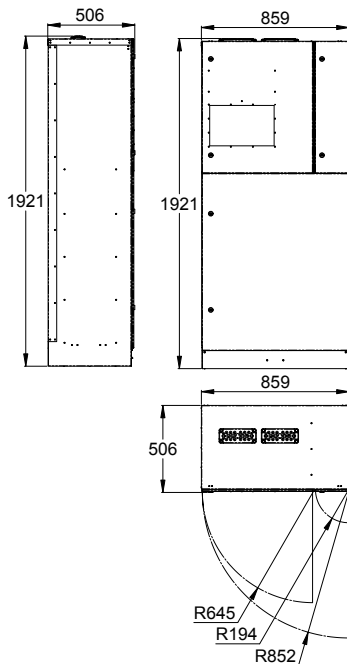
TKT68C Central Battery System can fit batteries of up to 18 x 65 Ah into its casing; therefore, it is well suited for locations where only a limited amount of space is available.

In addition to the normal emergency lighting functions, Central Battery Systems in the Tapsa Control TKT68C series make it possible to test automatically the condition of the central unit itself and the luminaires connected to it. The testing of luminaires is based on individual addresses. The communication is by means of the power supply cables. Thus there is no need for any separate data cabling between the luminaires. The luminaires must be addressable, of the Teknoware model ending in K, or they must have a separate address module.

Utilisation of these luminaires also enables the connection of maintained and non-maintained lights to the same circuit and allows local supply monitoring using Teknoware Local Controller, or Intelligent Controller, which can also be used to control the non-maintained emergency lights.

These central battery units have, depending on the model, either 8, 16 or 24 output circuits, which can be set to function as maintained or non-maintained. A maximum of 32 addressable luminaires can be connected to one circuit. Circuits can also be connected in parallel to increase the output power with the following changeover module outputs possible: 8 x 350 VA, 4 x 700 VA or 2 x 1400 VA.

## DIMENSIONS





## TYPE OF THE CBS

Product code	Max input power (mains)	Number of circuits/ Outputs	Max load, maintained lights	Max total load, 1 h duration	Max total load, 3 h duration	Weight (kg)
TKT6808C	3680 VA	8 circuits each 350 W 1 x (8x350 W / 4x700 W / 2x1400 W)	2580 VA	2800 W	2800 W	145,0
TKT6808CF	3900 VA	8 circuits each 350 W 1 x (8x350 W / 4x700 W / 2x1400 W)	2800 VA	2800 W	2800 W	145,0
TKT6816C	3680 VA	16 circuits each 350 W 2 x (8x350 W / 4x700 W / 2x1400 W)	2580 VA	5600 W	3340 W	147,0
TKT6816CF	6700 VA	16 circuits each 350 W 2 x (8x350 W / 4x700 W / 2x1400 W)	5600 VA	5600 W	3340 W	147,0
TKT6824C	3680 VA	24 circuits each 350 W 3 x (8x350 W / 4x700 W / 2x1400 W)	2580 VA	6000 W	3340 W	150,0
TKT6824CF	9500 VA	24 circuits each 350 W 3 x (8x350 W / 4x700 W / 2x1400 W)	8400 VA	6000 W	3340 W	150,0

**Output voltage:** 230 V AC/DC | **Batteries :** 18 x 12 V (216 V) | **Max battery capacity:** 65 Ah | **F-letter at the end of the product code:** three phase input  
**Nominal supply voltage:** 1~ N/PE 220-240 VAC, 50/60 Hz, three phase input CBS's: 3~ N/PE 220-240/380-415 VAC, 50/60 Hz  
**Required short circuit current,** when using 2,5 A fuse, applying 0,4 s tripping time: 10 A  
**Max load inrush current:** 350 W circuit (1 circuit): 120 A/1 ms, 700 W circuit (2 circuits parallel): 250 A/1 ms, 1400 W circuit (4 circuits parallel): 300 A/1 ms  
**Cable XJ997F (for ≥15 Ah batteries) included**

## BATTERIES (18 x TEAxx / xxAh)

Product code	Size of the battery (Ah)	Max load, 1 h operation time	Max load, 3 h operation time	Battery cabinet	Battery cable	Dimensions of the battery (mm)	Weight of the battery (kg)
TEA020	6,5 Ah	870 W	350 W	No separate battery cabinet needed	XJ997G	151 x 65 x 98	2,4
TEA021	15 Ah	1700 W	770 W	No separate battery cabinet needed	-	181 x 76 x 167	5,9
TEA022	24 Ah	2720 W	1250 W	No separate battery cabinet needed	-	166 x 175 x 125	8,7
TEA023	38 Ah	4550 W	2050 W	No separate battery cabinet needed	-	197 x 165 x 173	13,8
TEA024	65 Ah	6000 W	3340 W	No separate battery cabinet needed	-	350 x 166 x 174	22,8

**A 10 % reserve is recommended for the loads (W) mentioned in the table. | Smallest acceptable size of the battery is 6,5 Ah**

## BATTERY CABLES

Product code	For
XJ997G	6,5 Ah batteries

**Cable XJ997F (for ≥15 Ah batteries) included**

## OPTIONAL FEATURES

Product code	Product description	For
TST6831	Integrated Printer	TKT68xxC(F)
TST6832	LCD Display Module	TKT68xxC(F)
TST6851	IC Interface for 8 circuits each 350 W	TKT6808C(F)
TST6852	IC Interface for 16 circuits each 350 W	TKT6816C(F)
TST6853	IC Interface for 24 circuits each 350 W	TKT6824C(F)
<b>Central monitoring options:</b>		
TST6822	LON Interface	TKT68xxC(F)
TST6823	BACnet Interface	TKT68xxC(F)
TST6821	ACM Interface	TKT68xxC(F)
TST6824	WebCM/ WebACM Interface	TKT68xxC(F)
TST1811F	BCM Interface	TKT68xxC(F)

# TAPSA CONTROL TKT66xxCx



TKT66XXC

TKT66XXCP

Central Battery Systems in the TKT66C series offer effective and space-saving solutions for supplying a moderate quantity of luminaires. They are especially suited for mid-sized and large premises where it is desirable to divide the central battery system into multiple independent regions.

The central unit input voltage is 220-240 VAC, except for three phase input models (that end in letter F) the input voltage, of which is 400 VAC between the phases. The output voltage is 220-240 VAC in normal mode and 216 VDC in battery mode. The battery voltage is 216 V, which is achieved by connecting eighteen 12 volt batteries in series.

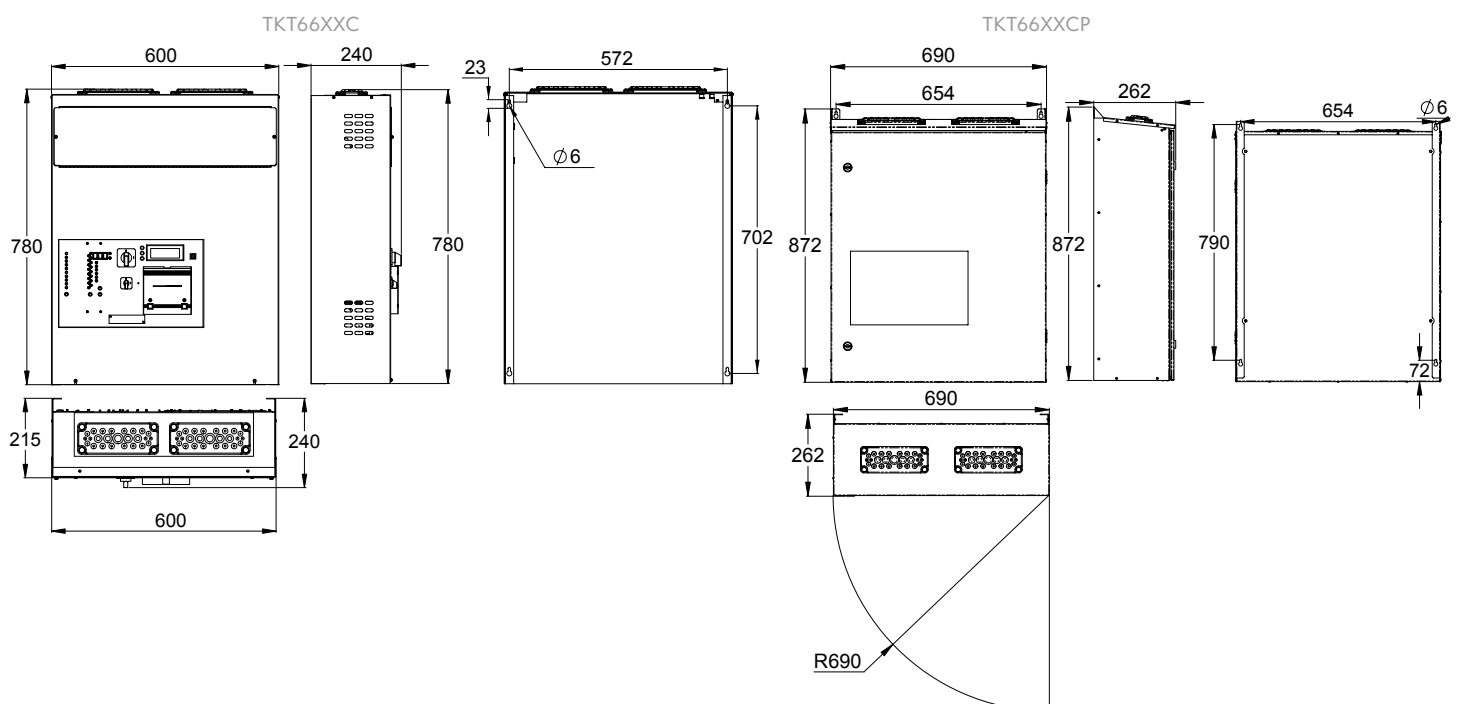
In addition to the normal emergency lighting functions, Central Battery Systems in the Tapsa Control TKT66C series make it possible to test automatically the condition of the central unit itself and the luminaires connected to it. The testing of luminaires is based on individual addresses and the communication is by means of the power supply cables. Thus, there is no need for any separate data cabling between the luminaires. The luminaires must be addressable, of the Teknoware model ending in K, or they must have a separate address module.

Utilisation of these luminaires also enables the connection of maintained and non-maintained lights to the

same circuit and allows local supply monitoring using Teknoware Local Controller, or Intelligent Controller, which can also be used to control the non-maintained emergency lights.

These central units have, depending on the model, either 8, 16 or 24 output circuits, which can be set to function as maintained or non-maintained. A maximum of 32 addressable luminaires can be connected to one circuit. Circuits can also be connected in parallel to increase the output power with the following changeover module outputs possible: 8 x 350 VA, 4 x 700 VA or 2 x 1400 VA.

## DIMENSIONS



## TYPE OF THE CBS

Product code	Max input power (mains)	Number of circuits / Outputs	Max load, maintained lights	Max total load, 1 h duration	Max total load, 3 h duration	Weight (kg)
TKT6608C(P)	3680 VA	8 circuits each 350 W 1 x (8x350 W / 4x700 W / 2 x1400 W)	2580 VA	2800 W	2800 W	32,8
TKT6608CF(P)	3900 VA	8 circuits each 350 W 1 x (8x350 W / 4x700 W / 2 x1400 W)	2800 VA	2800 W	2800 W	32,8
TKT6616C(P)	3680 VA	16 circuits each 350 W 2 x (8x350 W / 4x700 W / 2 x1400 W)	2580 VA	5600 W	3340 W	33,8
TKT6616CF(P)	6700 VA	16 circuits each 350 W 2 x (8x350 W / 4x700 W / 2 x1400 W)	5600 VA	5600 W	3340 W	33,8
TKT6624C(P)	3680 VA	24 circuits each 350 W 3 x (8x350 W / 4x700 W / 2 x1400 W)	2580 VA	6000 W	3340 W	34,8
TKT6624CF(P)	7100 VA	24 circuits each 350 W 3 x (8x350 W / 4x700 W / 2 x1400 W)	6000 VA	6000 W	3340 W	34,8

**Output voltage:** 230 V AC/DC | **Batteries:** 18 x 12 V (216V) | **Max battery capacity:** 65 Ah | **F-letter at the end of the product code:** three phase input  
**Nominal supply voltage:** TKT6608C-TKT6624C: 1~ N/PE 220-240 VAC, 50/60 Hz,  
three phase input CBS s: TKT6608CF-TKT6624CF: 3~ N/PE 220-240/380-415 VAC, 50/60 Hz  
**Required short circuit current,** when using 2,5 A fuse, applying 0,4 s tripping time: 10 A  
**Max load inrush current:** 350 W circuit (1 circuit): 120 A/ 1 ms, 700 W circuit (2 circuits parallel): 250 A/ 1 ms, 1400 W circuit (4 circuits parallel): 300 A/ 1 ms  
**P-letter at the end of the product code:** CBS with hinged front door, IP34

## BATTERIES (18 x TEAxx / xxAh)

Product code	Size of the battery (Ah)	Max load, 1 h operation time	Max load, 3 h operation time	Battery cabinet	Battery cable	Dimensions of the battery (mm)	Weight of the battery (kg)
TEA020	6,5 Ah	870 W	350 W	TK6500B(P)	XJ997B	151 x 65 x 98	2,4
TEA021	15 Ah	1700 W	770 W	TK6500B(P)	XJ997	181 x 76 x 167	5,9
TEA022	24 Ah	2720 W	1250 W	TK6500B(P) x 2	XJ997C	166 x 175 x 125	8,7
TEA023	38 Ah	4550 W	2050 W	TK6500B(P) x 2	XJ997C	197 x 165 x 173	13,8
TEA024	65 Ah	6000 W	3340 W	TKT6500(P) x 3	XJ997E	350 x 166 x 174	22,8

| A 10 % reserve is recommended for the loads (W) mentioned in the table. | Smallest acceptable size of the battery is 6,5 Ah

## BATTERY CABINETS

Product code	Battery capacity	Protection rating	Weight (kg)
TK6500B	18 x 12 V/15 Ah	IP20	14,0
TK6500BP	18 x 12 V / 15 Ah	IP34	19,0
TKT6500	6 x 12 V / 100 Ah	IP20	28,0
TKT6500P	6 x 12 V / 100 Ah	IP34	35,0

## BATTERY CABLES

Product code	Length of the battery cable (m)	For
XJ997B	1,5	6,5 Ah batteries
XJ997	1,5	≥15 Ah batteries
XJ997C	2,5	For two battery cabinets
XJ997E	3,5	For three TKT6500(P) battery cabinets

| Please note a peeling reserve in the length of the battery cable

## OPTIONAL FEATURES

Product code	Product description	For
TST6631	Integrated Printer	TKT66xxC(F)
TST6632	LCD Display Module	TKT66xxC(F)
TST6651	IC Interface for 8 circuits each 350 W	TKT6608C(F)
TST6652	IC Interface for 16 circuits each 350 W	TKT6616C(F)
TST6653	IC Interface for 24 circuits each 350 W	TKT6624C(F)
<b>Central monitoring options:</b>		
TST6622	LON Interface	TKT66xxC(F)
TST6601	BACnet Interface	TKT66xxC(F)
TST6621	ACM Interface	TKT66xxC(F)
TST6624	WebCM/ WebACM Interface	TKT66xxC(F)
TST1811D	BCM Interface	TKT66xxC(F)

# TAPSA CONTROL TKT65xxCx



TKT65XXC

TKT65XXCP

Central Battery Systems in the TKT65C series offer effective solutions for supplying a moderate number of lights. They are especially suited for mid-sized and large premises where it is desirable to divide the central system into multiple independent regions.

The central unit input voltage is 230 VAC. The output voltage is 230 VAC in normal mode and 216 VDC in battery mode. The battery voltage is 216 V, which is achieved by connecting eighteen 12 volt batteries in series.

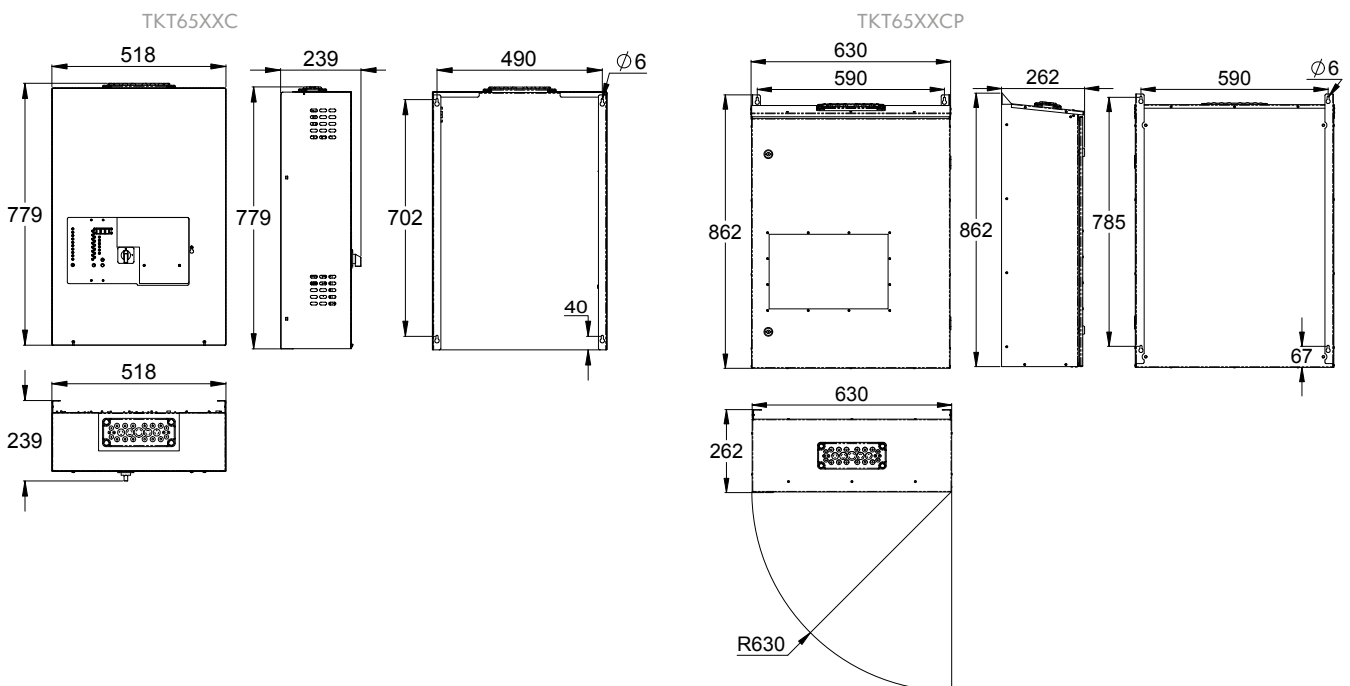
In addition to the normal emergency lighting functions, Central Battery

Systems in the Tapsa Control TKT65C series make it possible to test automatically the condition of the central unit itself and the luminaires connected to it. The testing of luminaires is based on individual addresses and the communication is by means of the power supply cables. Thus there is no need for any separate data cabling between the luminaires. The luminaires must be addressable, of the Teknoware model ending in K, or they must have a separate address module. Utilisation of these luminaires also enables the connection of maintained and non-

maintained lights to the same circuit and allows local supply monitoring using Teknoware Local Controller, or Intelligent Controller, which can also be used to control the non-maintained emergency lights.

These central units have, depending on the model, either 8, 16 or 24 output circuits, which can be set to function as maintained or non-maintained. A maximum of 16 addressable luminaires can be connected to one circuit.

## DIMENSIONS



## TYPE OF THE CBS

Product code	Max input power (mains)	Number of circuits/ Outputs	Max load, maintained lights	Max total load, 1 h duration	Weight (kg)
TKT6508C	3100 VA	8 circuits each 250 W	2000 VA	2000 W	29,5
TKT6508CP	3100 VA	8 circuits each 250 W	2000 VA	2000 W	29,5
TKT6516C	3680 VA	16 circuits each 250 W	2580 VA	4000 W	30,0
TKT6516CP	3680 VA	16 circuits each 250 W	2580 VA	4000 W	30,0
TKT6524C	3680 VA	24 circuits each 250 W	2580 VA	6000 W	30,5
TKT6524CP	3680 VA	24 circuits each 250 W	2580 VA	6000 W	30,5

**Output voltage:** 230 V AC/DC | **Batteries:** 18 x 12 V (216 V) | **Nominal supply voltage:** 1~ N/PE 220-240 VAC, 50 Hz

**Max battery capacity:** 65 Ah

**Required short circuit current,** when using 1,6 A fuse, applying 0,4 s tripping time: 7 A

**Max load inrush current:** (single circuit) 120 A/1 ms

**P-letter at the end of the product code:** CBS with hinged door, IP34

## BATTERIES (18 x TEAxx / xxAh)

Product code	Size of the battery (Ah)	Max load, 1 h operation time	Max load, 3 h operation time	Battery cabinet	Battery cable	Dimensions of the battery (mm)	Weight of the battery (kg)
TEA020	6,5 Ah	870 W	350 W	TK6500B(P)	XJ997B	151 x 65 x 98	2,4
TEA021	15 Ah	1700 W	770 W	TK6500B(P)	XJ997	181 x 76 x 167	5,9
TEA022	24 Ah	2720 W	1250 W	TK6500B(P) x 2	XJ997C	166 x 175 x 125	8,7
TEA023	38 Ah	4550 W	2050 W	TK6500B(P) x 2	XJ997C	197 x 165 x 173	13,8
TEA024	65 Ah	6000 W	3340 W	TKT6500(P) x 3	XJ997E	350 x 166 x 174	22,8

| A 10 % reserve is recommended for the loads (W) mentioned in the table. | Smallest acceptable size of the battery is 6,5 Ah

## BATTERY CABINETS

Product code	Battery capacity	Protection rating	Weight (kg)
TK6500B	18 x 12 V/15 Ah	IP20	14,0
TK6500BP	18 x 12 V / 15 Ah	IP34	19,0
TKT6500	6 x 12 V / 100 Ah	IP20	28,0
TKT6500P	6 x 12 V / 100 Ah	IP34	35,0

## BATTERY CABLES

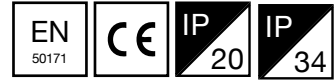
Product code	Length of the battery cable (m)	For
XJ997B	1,5	For 6,5 Ah batteries
XJ997	1,5	For ≥15 Ah batteries
XJ997C	2,5	For two battery cabinets
XJ997E	3,5	For three TKT6500(P) battery cabinets

| Please note a peeling reserve in the length of the battery cable

## OPTIONAL FEATURES

Product code	Product description	For
TST6531	Integrated Printer	TKT65xxC(P)
TST6532	LCD Display Module	TKT65xxC(P)
TST6551	IC Interface for 8 circuits each 250 W	TKT6508C(P)
TST6552	IC Interface for 16 circuits each 250 W	TKT6516C(P)
TST6553	IC Interface for 24 circuits each 250 W	TKT6524C(P)
<b>Central monitoring options:</b>		
TST6522	LON Interface	TKT65xxC(P)
TST6501	BACnet Interface	TKT65xxC(P)
TST6521	ACM Interface	TKT65xxC(P)
TST6524	WebCM/ WebACM-Interface	TKT65xxC(P)
TST1811C	BCM Interface	TKT65xxC(P)

# TKT65xxBx



230 V  
CENTRAL  
BATTERY  
SYSTEM



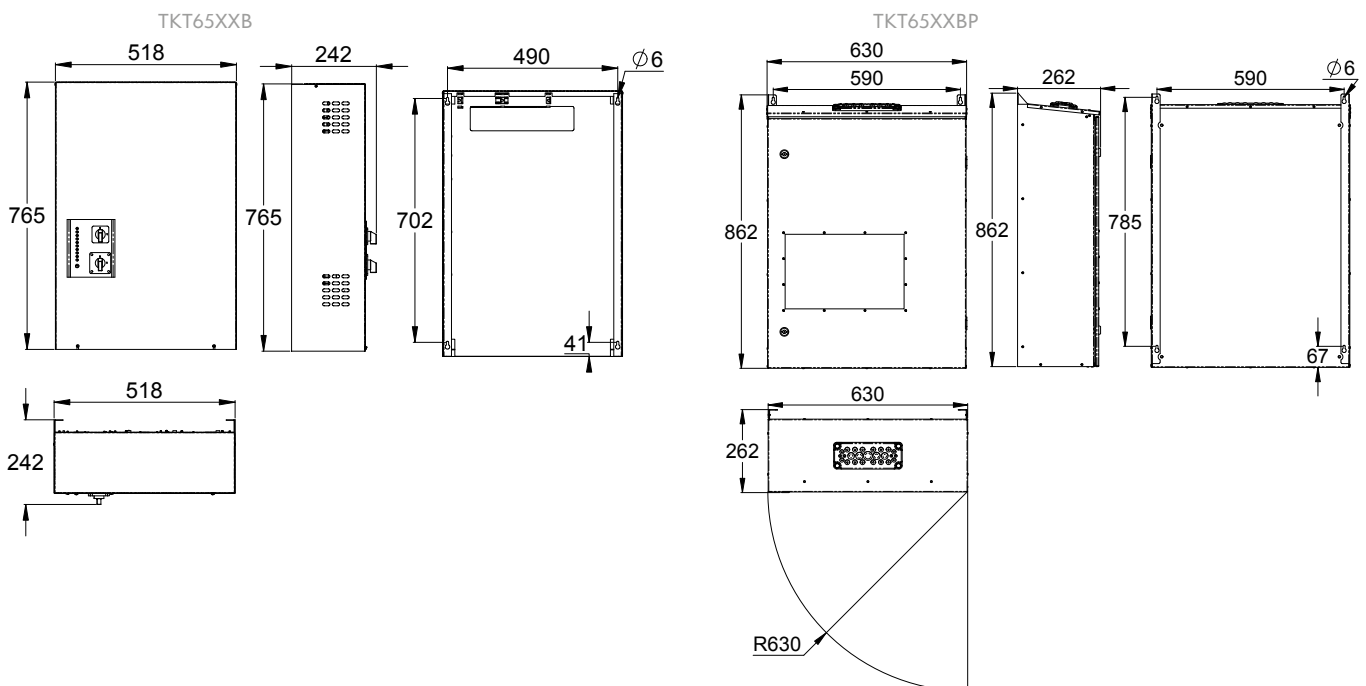
ALWAYS NEEDS  
18 BATTERIES,  
A BATTERY  
CABINET +  
BATTERY CABLES

Central Battery Systems in the TKT65B series offer simple solutions for supplying a moderate number of lights. They are especially suited for mid-sized and large premises where it is desirable to divide the central battery system into multiple independent regions.

The Central Battery System input voltage is 230 VAC, except for three phase input models (that end in letter F) the input voltage, of which is 400 VAC between the phases. The output voltage is 230 VAC in normal mode and 216 VDC in battery mode. The battery voltage is 216 V, which is achieved by connecting eighteen 12 volt batteries in series.

These Central Battery Systems have, depending on the model, either 6, 12, 18 or 24 output circuits, which can be set to function as maintained or non-maintained in groups of two.

## DIMENSIONS



## TYPE OF THE CBS

Product code	Max input power (mains)	Number of circuits/ Outputs	Max load, maintained lights	Max total load, 1 h duration	Weight (kg)
TKT6506B	2600 VA	6 circuits each 250 W	1500 VA	1500 W	27,8
TKT6506BF	2600 VA	6 circuits each 250 W	1500 VA	1500 W	27,8
TKT6506BP	2600 VA	6 circuits each 250 W	1500 VA	1500 W	27,8
TKT6512B	3680 VA	12 circuits each 250 W	2580 VA	3000 W	30,0
TKT6512BF	4100 VA	12 circuits each 250 W	3000 VA	3000 W	30,0
TKT6512BP	3680 VA	12 circuits each 250 W	2580 VA	3000 W	30,0
TKT6518B	3680 VA	18 circuits each 250 W	2580 VA	4500 W	31,0
TKT6518BF	5600 VA	18 circuits each 250 W	4500 VA	4500 W	31,0
TKT6518BP	3680 VA	18 circuits each 250 W	2580 VA	4500 W	31,0
TKT6524B	3680 VA	24 circuits each 250 W	2580 VA	6000 W	31,6
TKT6524BF	7100 VA	24 circuits each 250 W	6000 VA	6000 W	31,6
TKT6524BP	3680 VA	24 circuits each 250 W	2580 VA	6000 W	31,6

Output voltage: 230 V AC/DC

Batteries : 18 x 12 V (216 V)

Max total load of the Central Battery System = amount of circuits x 120 W

F-letter at the end of the product code: three phase input

P-letter at the end of the product code: IP34

Max battery capacity: 65 Ah

Nominal supply voltage: TKT6506B-TKT6524B: 1~ N/PE 220-240 VAC, 50 Hz,  
three phase input CBS's: TKT6506BF-TKT6524BF: 3~ N/PE 220-240/380-415 VAC, 50 Hz

Required short circuit current, when using 4 A fuse, applying 0,4 s tripping time: 11 A

Max load inrush current: (single circuit) 120 A/1 ms

## BATTERIES (18 x TEAx / xxAh)

Product code	Size of the battery (Ah)	Max load, 1 h operation time	Max load, 3 h operation time	Battery cabinet	Battery cable	Dimensions of the battery (mm)	Weight of the battery (kg)
TEA020	6,5 Ah	870 W	350 W	TK6500B(P)	XJ997B	151 x 65 x 98	2,4
TEA021	15 Ah	1700 W	770 W	TK6500B(P)	XJ997	181 x 76 x 167	5,9
TEA022	24 Ah	2720 W	1250 W	TK6500B(P) x 2	XJ997C	166 x 175 x 125	8,7
TEA023	38 Ah	4550 W	2050 W	TK6500B(P) x 2	XJ997C	197 x 165 x 173	13,8
TEA024	65 Ah	6000 W	3340 W	TKT6500(P) x 3	XJ997E	350 x 166 x 174	22,8

A 10 % reserve is recommended for the loads (W) mentioned in the table. | Smallest acceptable size of the battery is 6,5 Ah

## BATTERY CABINETS

Product code	Battery capacity	Protection rating	Weight (kg)
TK6500B	18 x 12 V/15 Ah	IP20	14,0
TK6500BP	18 x 12 V / 15 Ah	IP34	19,0
TKT6500	6 x 12 V / 100 Ah	IP20	28,0
TKT6500P	6 x 12 V / 100 Ah	IP34	35,0

## BATTERY CABLES

Product code	Length of the battery cable (m)	For
XJ997B	1,5	6,5 Ah batteries
XJ997	1,5	≥15 Ah batteries
XJ997C	2,5	For two battery cabinets
XJ997E	3,5	For three TKT6500 battery cabinets

Please note a peeling reserve in the length of the battery cable

## OPTIONAL FEATURES

Product code	Product description	For
Central monitoring options:		
TST1811	BCM Interface	TKT65xxBx

# TKT31/41xx



24 V  
CENTRAL  
BATTERY  
SYSTEM



TKT3122 HAS  
SPACE FOR  
2 X 12 V /  
24 AH BATTERIES

TKT41XX HAS  
SPACE FOR  
2 X 12 V /  
38 AH BATTERIES

Central Battery Systems in the TKT3122 and TKT41 series offer simple solutions for supplying a relatively small number of lights in a limited area. They are especially suited for small premises and applications where it is desirable to divide the central system into multiple independent regions.

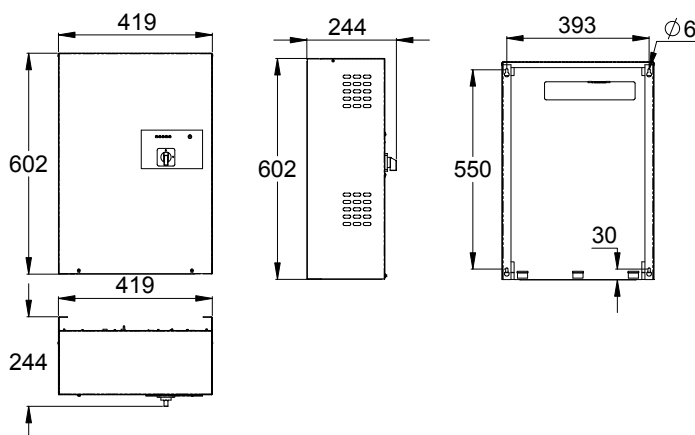
The Central Battery System input voltage is 230 VAC. The output voltage is 24 VAC in normal mode and 24 VDC in battery mode. The battery voltage is 24 V, which is achieved by connecting two 12 volt batteries in series.

TKT41 Central Battery Systems have,

depending on the model, either 8 or 16 output circuits.

TKT3122 Central Battery System has 4 output circuits, which can be set to function as maintained or non-maintained in groups of two.

## DIMENSIONS





## TYPE OF THE CBS

Product code	Max input power (mains)	Outputs	Output circuit	Max load, maintained lights	Max total load, 1 h duration	Space for batteries inside the unit	Max battery capacity	Weight (kg)
TKT3122	300 VA	4 x 120 W	Can be set in steps of two circuits / total 4 circuits: • maintained circuits max 120 W / circuit • non-maintained circuits max 190 W / circuit	250 VA	290 W	2 x 12 V / 24 Ah	24 Ah	12,5
TKT4144	1300 VA	8 x 120 W	Can be set in steps of two circuits / total 8 circuits: • maintained circuits max 120 W / circuit • non-maintained circuits max 190 W / circuit	1050 VA	1370 W	2 x 12 V / 38 Ah	100 Ah	24,0
TKT4188	1300 VA	16 x 120 W	Can be set in steps of two circuits / total 16 circuits: • maintained circuits max 120 W / circuit • non-maintained circuits max 190 W / circuit	1050 VA	1370 W	2 x 12 V / 38 Ah	100 Ah	24,5

**Output voltage:** 24 V AC/DC | **Batteries needed:** 2 x 12 V (24 V) | **Nominal supply voltage:** 1~ N/PE 220-240 VAC, 50 Hz

## BATTERIES (2 x TEAxx / xxAh)

Product code	Size of the battery (Ah)	Max load, 1 h operation time	Max load, 3 h operation time	Battery cabinet	Battery cable	Dimensions of the battery (mm)	Weight of the battery (kg)
TEA020	6,5 Ah	95 W	40 W	TK2300	XJ995	151 x 65 x 98	2,4
TEA021	15 Ah	180 W	85 W	TK2300	XJ996	181 x 76 x 167	5,9
TEA022	24 Ah	290 W	135 W	TK2300	XJ996	166 x 175 x 125	8,7
TEA023	38 Ah	490 W	220 W	TK2300	XJ996	197 x 165 x 173	13,8
TEA024	65 Ah	800 W	360 W	TK4100	XJ996	350 x 166 x 174	22,8
TEA024B	100 Ah	1370 W	565 W	TK2310	XJ996	327 x 168 x 210	33,5

**A 10 % reserve is recommended for the loads (W) mentioned in the table.** | **NOTE!** TKT3122 max battery 2 x 24 Ah  
Smallest acceptable size of the battery is 6,5 Ah

## BATTERY CABINETS

Product code	Battery capacity	Weight (kg)
TK2310	2 x 12 V / 150 Ah	15,5
TK4100	2 x 12 V / 65 Ah	10,0

## BATTERY CABLES

Product code	Length of the battery cable (m)	For
XJ996	1,5	≥15 Ah batteries

Please note a peeling reserve in the length of the battery cable

## OPTIONAL FEATURES

Product code	Product description	For
Central monitoring options:		
TST1811	BCM Interface	TKT3122 and TKT41xx

# BATTERY CABINETS

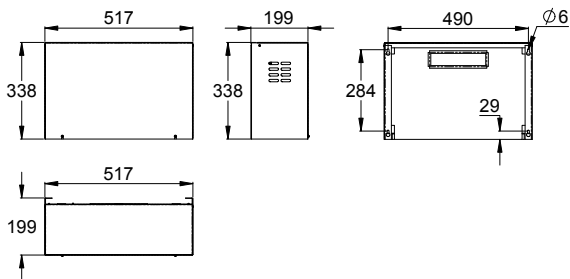


## BATTERY CABINETS

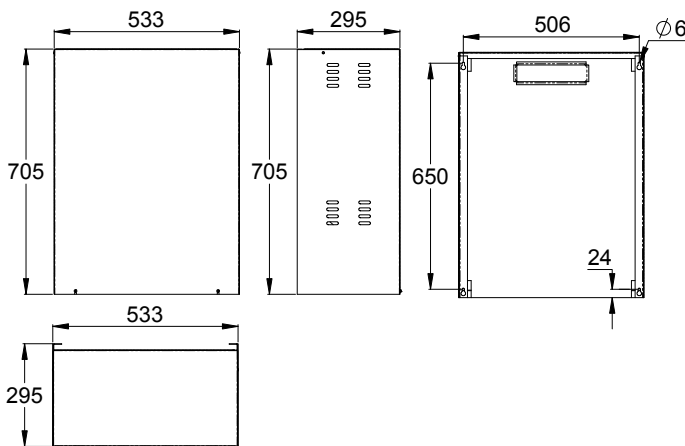
Product code	Battery capacity	Protection rating	Weight (kg)
TK2300	2 x 12 V / 38 Ah	IP20	6,3
TK2310	2 x 12 V / 150 Ah	IP20	15,5
TK4100	2 x 12 V / 65 Ah	IP20	10,0
TK6500B	18 x 12 V / 15 Ah	IP20	14,0
TK6500BP	18 x 12 V / 15 Ah	IP34	19,0
TKT6500	6 x 12 V / 100 Ah	IP20	28,0
TKT6500P	6 x 12 V / 100 Ah	IP34	35,0



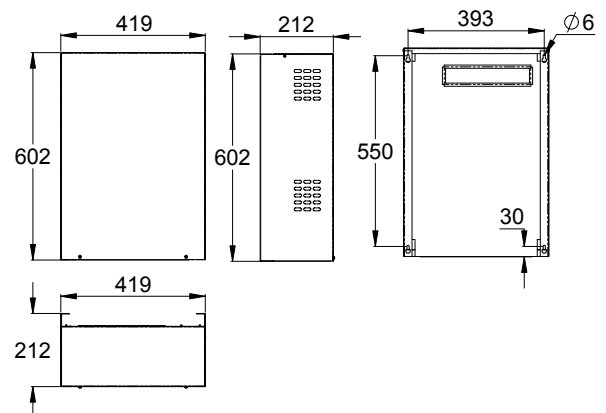
BATTERY CABINET TK2300



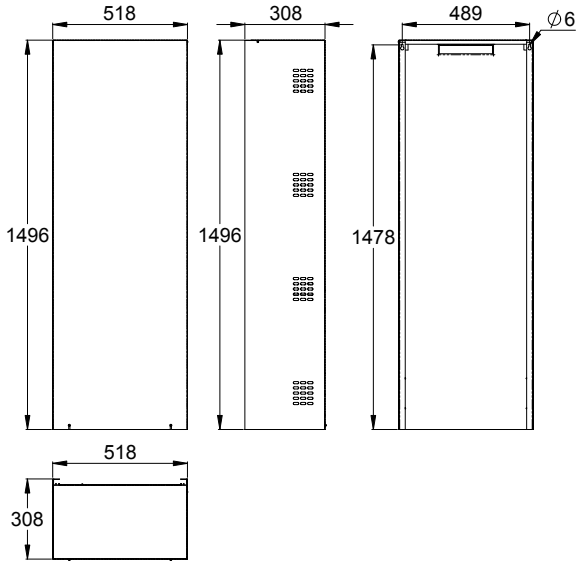
BATTERY CABINET TK2310



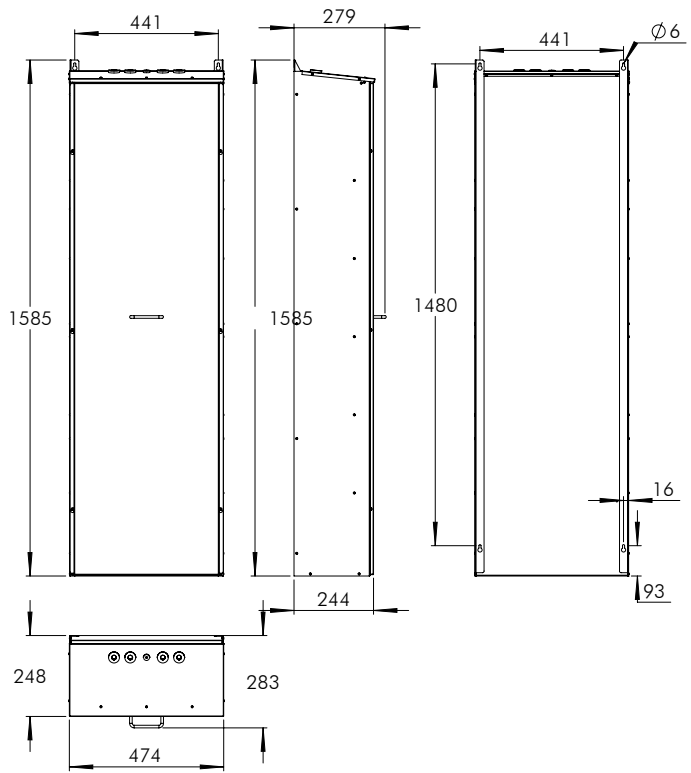
BATTERY CABINET TK4100



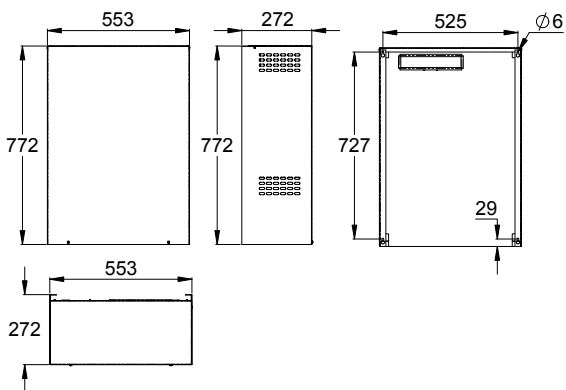
BATTERY CABINET TKT6500



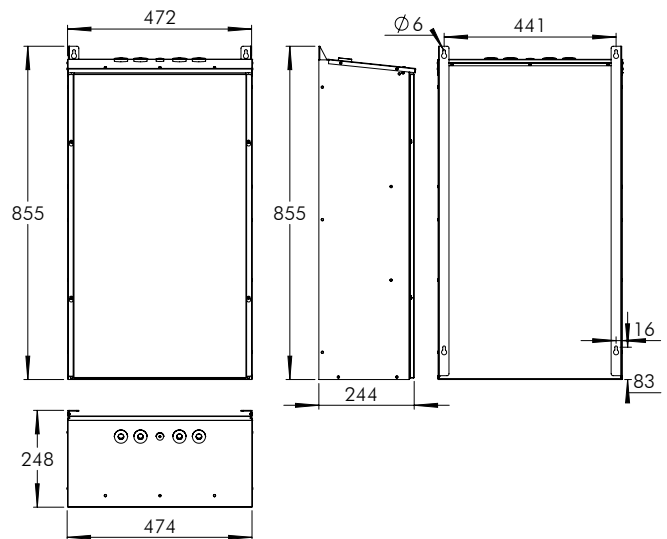
BATTERY CABINET TKT6500P



BATTERY CABINET TK6500B

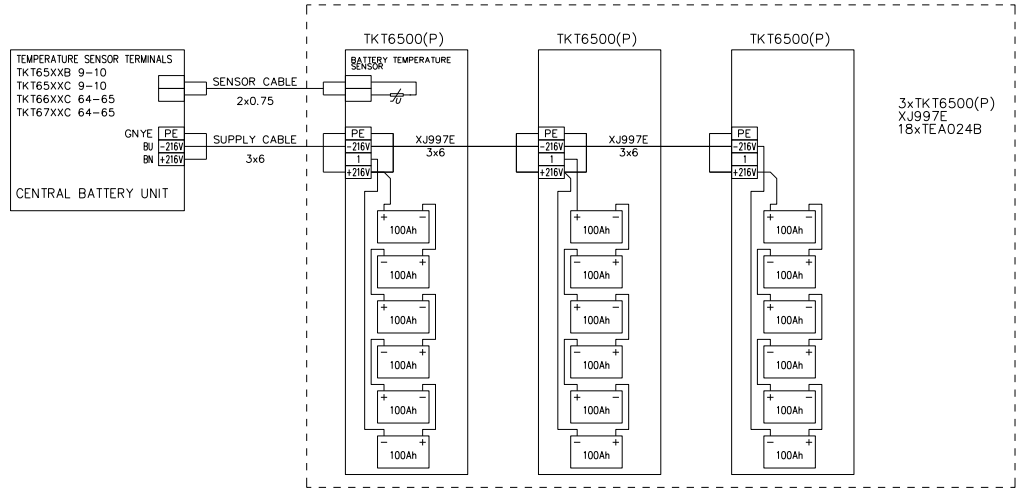


BATTERY CABINET TK6500BP



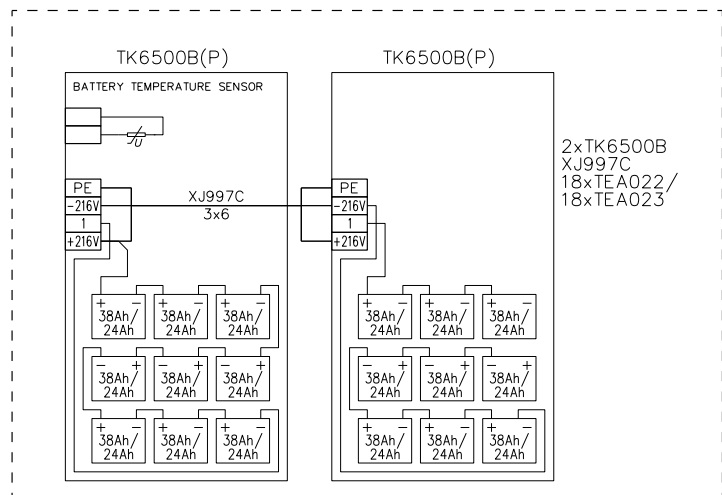
# EXAMPLES OF THE PLACEMENT OF THE BATTERIES IN BATTERY CABINETS

Example of the placement of the batteries in battery cabinets TKT6500(P)

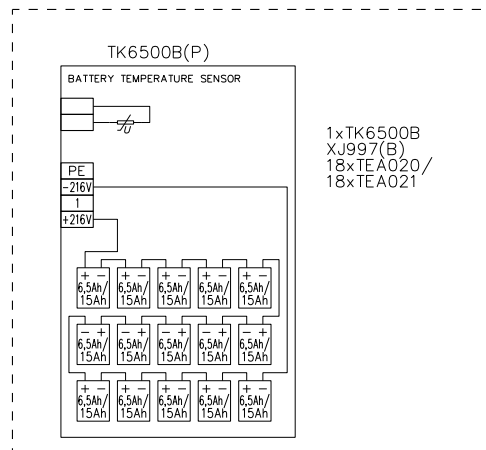


Example of the placement of the batteries in battery cabinets TK6500B(P)

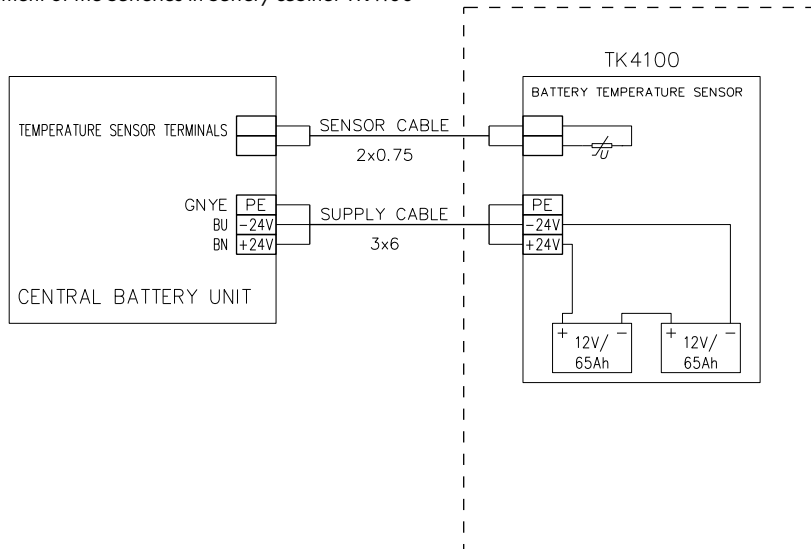
1)



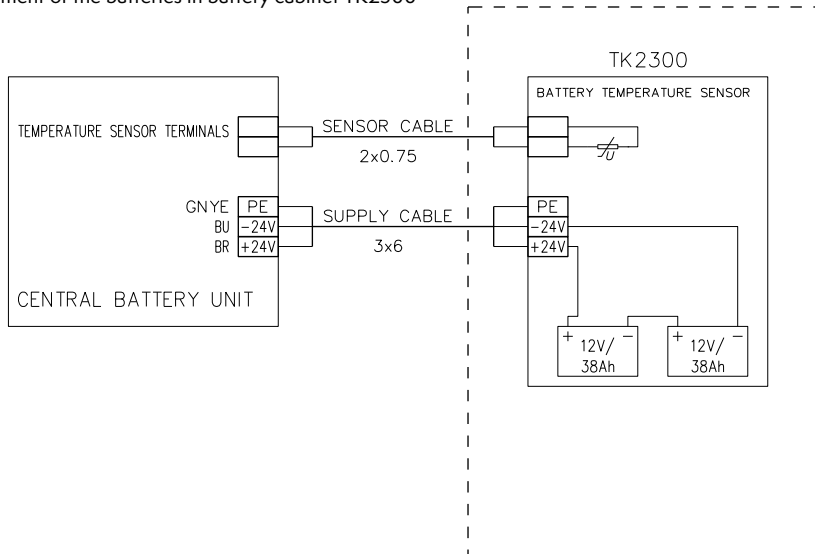
2)



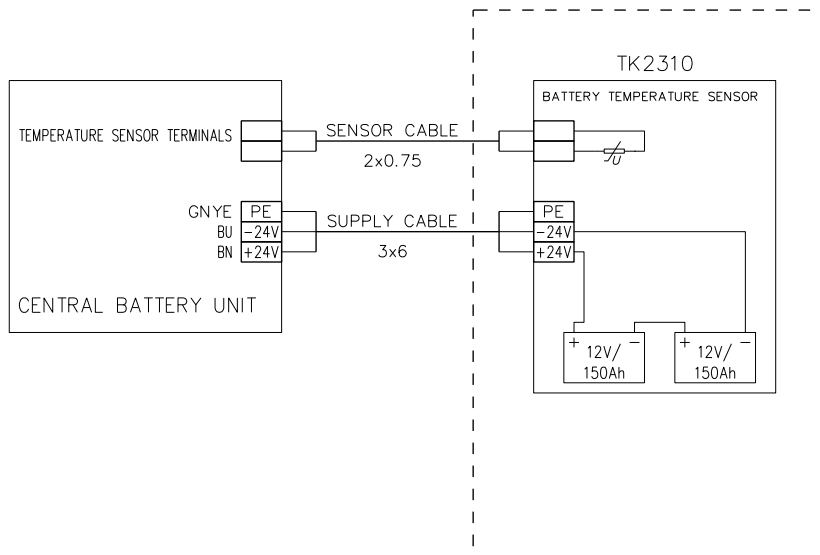
Example of the placement of the batteries in battery cabinet TK4100



Example of the placement of the batteries in battery cabinet TK2300



Example of the placement of the batteries in battery cabinet TK2310



# BATTERIES

Product code	Size of the battery (Ah)	Dimensions (mm)	Weight (kg)
TEA020	6,5 Ah / 12 V	151 x 65 x 98	2,4
TEA021	15 Ah / 12 V	181 x 76 x 167	5,9
TEA022	24 Ah / 12 V	166 x 175 x 125	8,7
TEA023	38 Ah / 12 V	197 x 165 x 173	13,8
TEA024	65 Ah / 12 V	350 x 166 x 174	22,8
TEA024B	100 Ah / 12 V	327 x 168 x 210	33,5
TEA024D	150 Ah / 12 V	485 x 172 x 240	47,0



# BATTERY CAPACITY / BATTERY MODE DURATION

A 10 % reserve is recommended for the loads (W) mentioned in the table.

## TKT3122 AND TKT41xx Central Battery Systems

Battery capacity 2 x 12 V (24 V)	Max load, 1 h operation time	Max load, 3 h operation time
TEA020 / 6,5 Ah	95 W	40 W
TEA021 / 15 Ah	180 W	85 W
TEA022 / 24 Ah	290 W	135 W
TEA023 / 38 Ah	490 W	220 W
TEA024 / 65 Ah	800 W	360 W
TEA024B / 100 Ah	1370 W	565 W

## TK23xx(C) Central Battery Systems

Battery capacity 2 x 12 V (24 V)	Max load, 1 h operation time	Max load, 3 h operation time
TEA020 / 6,5 Ah	80 W	34 W
TEA021 / 15 Ah	150 W	70 W
TEA022 / 24 Ah	245 W	115 W
TEA023 / 38 Ah	415 W	185 W
TEA024 / 65 Ah	680 W	305 W
TEA024B / 100 Ah	960 W	480 W
TEA024D / 150 Ah	-	730 W

## TKT65xx(C), TKT66xxC AND TKT68xxC Central Battery Systems

Battery capacity 18 x 12 V (216 V)	Max load, 1 h operation time	Max load, 3 h operation time
TEA020 / 6,5 Ah	870 W	350 W
TEA021 / 15 Ah	1700 W	770 W
TEA022 / 24 Ah	2720 W	1250 W
TEA023 / 38 Ah	4550 W	2050 W
TEA024 / 65 Ah	6000 W	3340 W

## TKT67xxC Central Battery Systems

Battery capacity 18 x 12 V (216 V)	Max load, 1 h operation time	Max load, 3 h operation time
TEA024 / 65 Ah	7500 W	3340 W
TEA024B / 100 Ah	11780 W	5050 W
TEA024D / 150 Ah	17670 W	7580 W
TEA024C / 200 Ah	19600 W	10010 W
300 Ah (2 x 150 Ah)	-	15160 W
400 Ah (2 x 200 Ah)	-	19600 W

# SHORT CIRCUIT CURRENT OF CIRCUIT CABLES

Fuses of Central Battery Systems	Required short circuit current for 0,4 s tripping time	Max length of 1,5 mm <sup>2</sup> cable	Max length of 2,5 mm <sup>2</sup> cable	Max length of 6 mm <sup>2</sup> cable
TK23xx, TK23xxC <sup>*)</sup>	11 A	800 m	1300 m	3200 m
TKT65xxB	11 A	800 m	1300 m	3200 m
TKT65xxC <sup>*)</sup>	7 A	1200 m	2000 m	5000 m
TKT66xxC <sup>*)</sup> , TKT67xxC <sup>*)</sup> , TKT68xxC <sup>*)</sup>	10 A	900 m	1500 m	3600 m

<sup>\*)</sup> with addressable luminaires max cable length is 500 m

# BATTERY CABLES

Battery cable is needed with a separate battery cabinet

## BATTERY CABLES

Product code	Length of the battery cable (m)	For	For
XJ995	1,5	6,5 Ah batteries	TKT31, TKT41 and TK23 Central Battery Systems
XJ996	1,5	≥15 Ah batteries	TKT31, TKT41 and TK23 Central Battery Systems
XJ997B	1,5	6,5 Ah batteries	TKT65 and TKT66 Central Battery Systems
XJ997	1,5	≥15 Ah batteries	TKT65 and TKT66 Central Battery Systems
XJ997C	2,5	For two battery cabinets	TKT65 and TKT66 Central Battery Systems
XJ997E	3,5	For three TKT6500 battery cabinets	TKT65 and TKT66 Central Battery Systems
XJ997F	-	≥15 Ah batteries	TKT68 Central Battery Systems
XJ997G	-	6,5 Ah batteries	TKT68 Central Battery Systems

Please note a peeling reserve in the length of the battery cable

# REMOTE SWITCHES



Product code	Product description	For
SK066	Recess mounted, 24 V	TKT31, TKT41 and TKT65
SK066C	Recess mounted	TKT65, TKT66, TKT67, TKT68
SK065	Collar for surface mounting	SK066(C)
SK066B	Glass for remote switch	SK066(C)



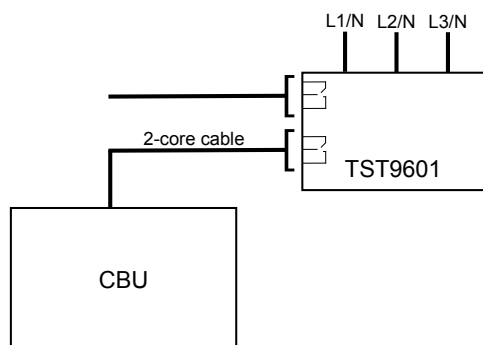
# PHASE CONTROLLER MODULES



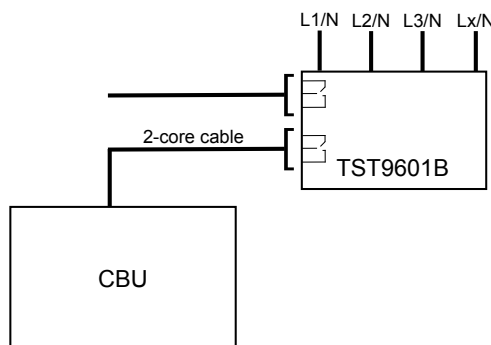
Phase Controller Modules enable to control 1-4 phases of local fuse boxes. There are 2 pieces of potential free contact relays, which will be activated, when one or more controlled phases drop or is missing. Relay outputs can be connected in NO or NC and it is possible to control other devices with them.

Product code	Input voltage	Feature	Dimensions (mm)
TST9601	220-240 V AC/DC, 50/60 Hz AC,DC	3-phase controller	117 x 84 x 43
TST9601B	220-240 V AC/DC, 50/60 Hz AC,DC	4-phase controller	105 x 90 x 58

TST9601



TST9601B



# SWITCH CONTROLLER



<sup>\*)</sup> with the junction box enclosure=IP20



POSSIBLE TO ACTIVATE THE LUMINAIRES CONNECTED TO THE CENTRAL BATTERY SYSTEMS USING EITHER A LIGHT SWITCH OR A TIMER

COMPATIBLE WITH ALL TEKNOWARE CENTRAL BATTERY SYSTEMS HAVING A 230 VAC/DC OUTPUT

Utilising the Switch Controller TST28xx, it is possible under normal mode to activate the luminaires connected to the Central Battery System using either a light switch or a timer.

During an emergency mode, the Switch Controller switches the supply to take place from the Central Battery System.

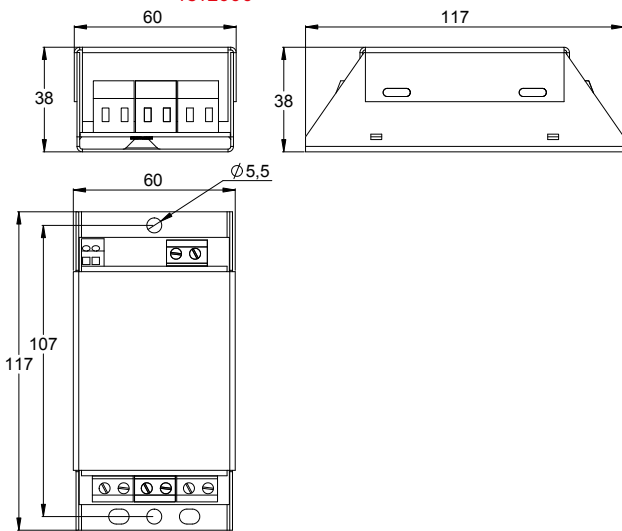
In this case, all the luminaires will be lit automatically whether the light switch is on or off.

The Switch Controller TST28xxx is compatible with all Teknoware Central Battery Systems having a 230 VAC/DC output. It can also be used with the Local Controller.

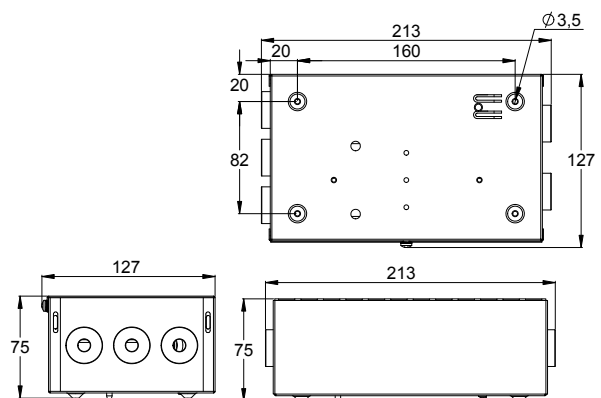
Switch Controller has also a dimming control output, which can be used to dim the light during emergency mode. The control output is compatible with electronic ballasts having a 1-10 V dimming control input according to IEC 60929.

## SWITCH CONTROLLER

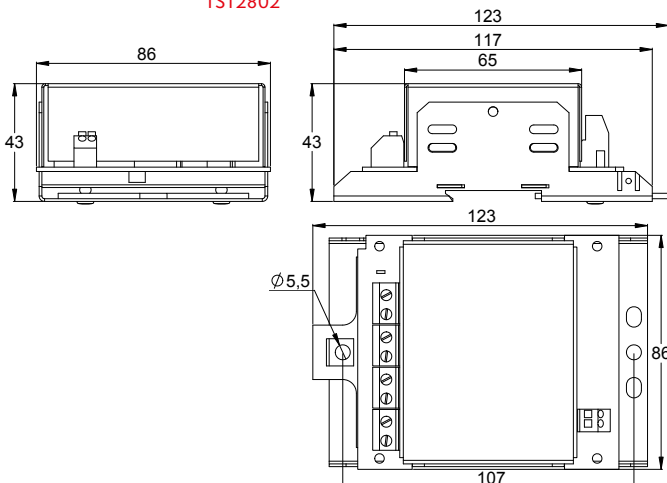
### TST2800



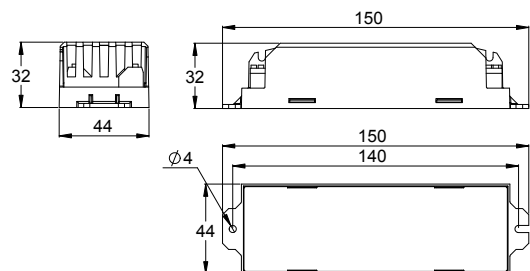
### TST2801/ TST2803(B)



### TST2802

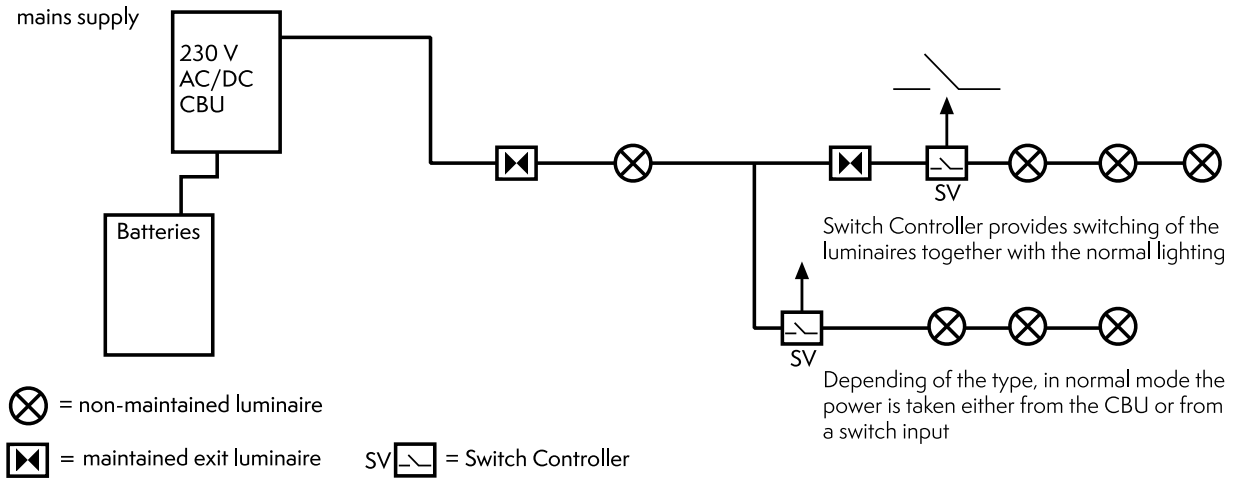


### TST8501





SWITCH CONTROLLER



SWITCH CONTROLLER

Product code	Input voltage	Power	Installation	Features
TST2800	230 V AC/DC	250 VA	Inside a distribution panel	<ul style="list-style-type: none"> <li>in normal mode the luminaires take their supply from the light switch</li> <li>controls emergency lights by normal light switch</li> <li>a dimming control output 1-10 V</li> </ul>
TST2801	230 V AC/DC	250 VA	With the junction box enclosure (IP20) for independent installation	<ul style="list-style-type: none"> <li>in normal mode the luminaires take their supply from the light switch</li> <li>controls emergency lights by normal light switch</li> <li>a dimming control output 1-10 V</li> </ul>
TST2802	230 V AC/DC	1400 VA	Inside a distribution panel	<ul style="list-style-type: none"> <li>controls emergency lights from Central Battery System</li> <li>a dimming control output 1-10 V</li> </ul>
TST2803	230 V AC/DC	1400 VA	With the junction box enclosure (IP20) for independent installation	<ul style="list-style-type: none"> <li>controls emergency lights from Central Battery System</li> <li>a dimming control output 1-10 V</li> </ul>
TST2803B	230 V AC/DC	1400 VA	With the junction box enclosure (IP20) for independent installation	<ul style="list-style-type: none"> <li>in normal mode the luminaires take their supply from the light switch</li> <li>controls emergency lights by normal light switch</li> <li>a dimming control output 1-10 V</li> </ul>
TST8501	230 V AC/DC	1000 VA	Inside a distribution panel	<ul style="list-style-type: none"> <li>controls emergency lights from Central Battery System</li> <li>inverting function in AC</li> </ul>

# LOCAL CONTROLLER



\*) with the junction box enclosure=IP20



**EXTRA SAFETY  
WITH LOWER  
INSTALLATION  
COSTS**

**ENABLES LOCAL  
CONTROL OF  
EMERGENCY  
LIGHTS IN  
CENTRAL BATTERY  
SYSTEMS**

Local Controller enables local control of emergency lights in central battery systems. It monitors the local supply, and controls the emergency lights connected to it. It provides two remarkable advantages:

- Local voltage breakdown switches on the non-maintained emergency lights, even if the supply to the Central Battery System remains.
- Both maintained and non-maintained emergency lights can be connected to the same circuit. This eliminates separate cabling for maintained and non-maintained lights.

Local Controller is connected to the emergency supply cabling between the Central Battery System, and the luminaires. Its monitoring inputs are connected to the mains supply of the local general lighting, and it can monitor up to 3 phases independently. If any of the monitoring inputs detect supply failure, Local Controller sends a message via supply cable to the non-maintained lights and they switch themselves on. When the supply recovers, the normal operation returns automatically.

Models TS90695, TS90696, TST6803, TST6804 and TST6805 also have a switch control input and a potentiometer, for setting a time delay, so that the

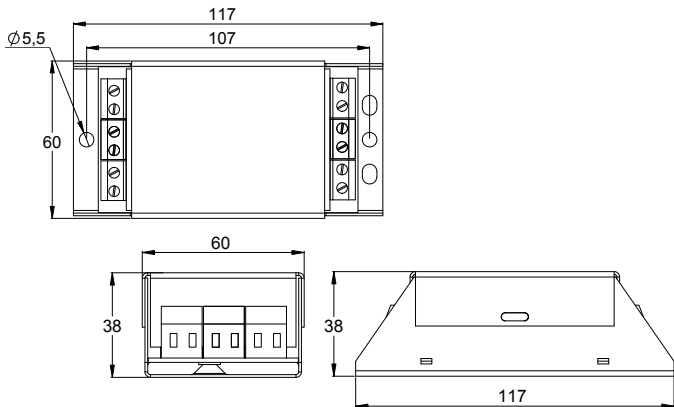
connected luminaires remain lit, after the normal power supply has been restored

Both maintained and non-maintained emergency lights can be connected to the same circuit wiring.

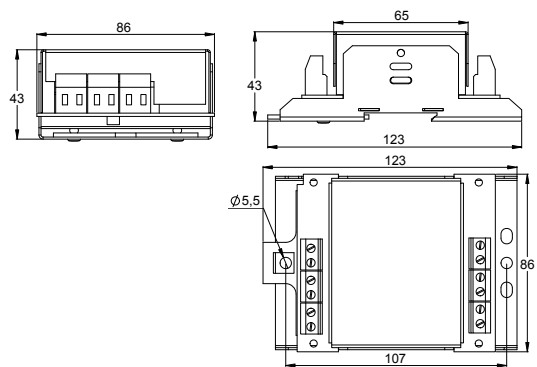
Teknoware's addressable luminaires (K in the end of the product code) can be installed as non-maintained, when used with Local Controller.

Models TS90695, TS90696, TST6803, TST6804 and TST6805 have a relay output for controlling other devices. The relay output changes status, when Local Controller is activated.

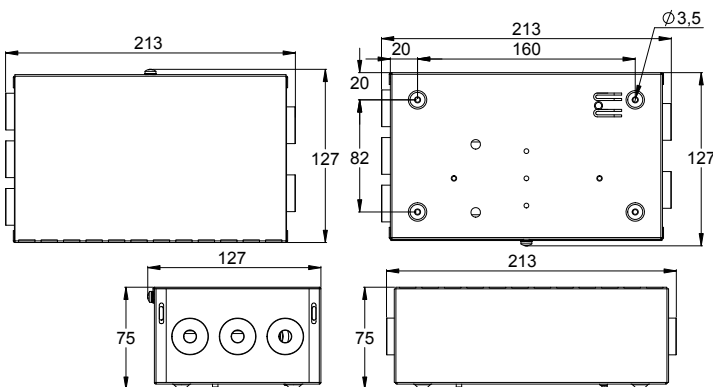
**TS90685, TS90695**



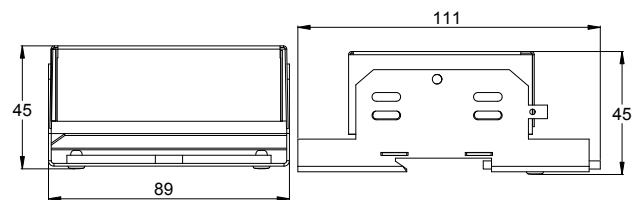
**TST6801, TST6803**

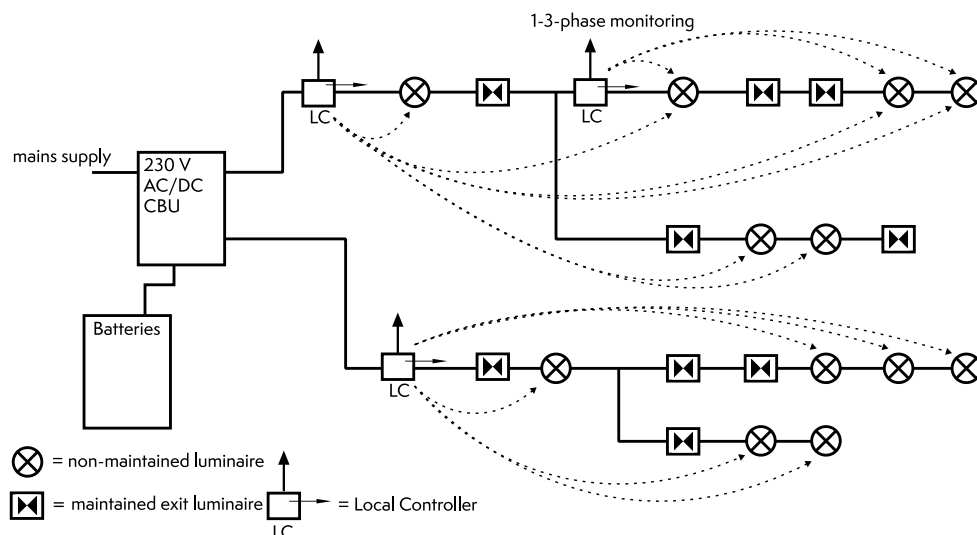


**TS90686, TS90696, TST6802, TST6804**



**TST6805**





- | Data moves in circuit cables
- | The Local Controller enables controlling local mains supply

## LOCAL CONTROLLER

Product code	Input voltage	Power	Installation	Feature
TS90685	230 V	250 VA	Inside a distribution panel	<ul style="list-style-type: none"> <li>• 1-3-phase monitoring,</li> <li>• Controlling the non-maintained lights through the supply cabling</li> </ul>
TS90686	230 V	250 VA	With the junction box enclosure (IP20) for independent installation	<ul style="list-style-type: none"> <li>• 1-3-phase monitoring,</li> <li>• Controlling the non-maintained lights through the supply cabling</li> </ul>
TS90695	230 V	250 VA	Inside a distribution panel	<ul style="list-style-type: none"> <li>• 1-3-phase monitoring /230 V control input,</li> <li>• Controlling the non-maintained lights through the supply cabling,</li> <li>• Switch control input,</li> <li>• Relay contact output from 1-3-phase monitoring (NC/NO),</li> <li>• 0-15 min adjustable delay for return to mains operations</li> </ul>
TS90696	230 V	250 VA	With the junction box enclosure (IP20) for independent installation	<ul style="list-style-type: none"> <li>• 1-3-phase monitoring /230 V control input,,</li> <li>• Controlling the non-maintained lights through the supply cabling,</li> <li>• Switch control input,</li> <li>• Relay contact output from 1-3-phase monitoring (NC/NO)</li> <li>• 0-15 min adjustable delay for return to mains operations</li> </ul>
TST6801	230 V	1400 VA	Inside a distribution panel, DIN rail compatible	<ul style="list-style-type: none"> <li>• 1-3-phase monitoring /230 V control input,</li> <li>• Controlling the non-maintained lights through the supply cabling</li> </ul>
TST6802	230 V	1400 VA	With the junction box enclosure (IP20) for independent installation	<ul style="list-style-type: none"> <li>• 1-3-phase monitoring /230 V control input,</li> <li>• Controlling the non-maintained lights through the supply cabling</li> </ul>
TST6803	230 V	1400 VA	Inside a distribution panel	<ul style="list-style-type: none"> <li>• 1-3-phase monitoring /230 V control input,</li> <li>• Controlling the non-maintained lights through the supply cabling,</li> <li>• Switch control input,</li> <li>• Relay contact output from 1-3-phase monitoring (NC/NO),</li> <li>• 0-15 min adjustable delay for return to mains operations</li> </ul>
TST6804	230 V	1400 VA	With the junction box enclosure (IP20) for independent installation	<ul style="list-style-type: none"> <li>• 1-3-phase monitoring /230 V control input,</li> <li>• Controlling the non-maintained lights through the supply cabling,</li> <li>• Switch control input,</li> <li>• Relay contact output from 1/3-phase monitoring (NC/NO)</li> <li>• 0-15 min adjustable delay for return to mains operations</li> </ul>
TST6805	230 V	1400 VA	Inside a distribution panel	<ul style="list-style-type: none"> <li>• Intelligent Controller (IC) compatible,</li> <li>• 1-3-phase monitoring /230 V control input,</li> <li>• Controlling the non-maintained lights through the supply cabling,</li> <li>• Switch control input,</li> <li>• Relay contact output from 1-3-phase monitoring (NC/NO),</li> <li>• 0-15 min adjustable delay for return to mains operations with 1 minute spacing with DIP Switch</li> </ul>

# SEPARATE ADDRESS MODULES



Input voltage: 20-240 V, 50/60 Hz AC,DC  
 Addresses: Max 32 addresses  
 Temperature range: -25...+50°C



Product code	Max load	Max input power	Current limit for fault detection	Output voltage	Maintained / non-maintained	Feature	Dimensions (mm)
TS98261	60 VA	1 VA / 1 W	10±5 mA	230 V DC	Maintained	• C	98 x 41 x 21
TS98263	60 VA	1 VA / 1 W	10±5 mA	230 V DC	Maintained / non-maintained	• Operation can be selected by a DIP switch, • IC, C, Local Controller	98 x 41 x 21
TS98263B	60 VA	1 VA / 1 W	5±2,5 mA	230 V DC	Maintained / non-maintained	• Operation can be selected by a DIP switch, • IC, C, Local Controller	98 x 41 x 21
TS98253	100 VA	1 VA / 1 W	10±5 mA	230 V DC	Maintained / non-maintained	• Operation can be selected by a DIP switch, • IC, C, Local Controller	98 x 41 x 21
TS98253B	100 VA	1 VA / 1 W	10±5 mA	230 V DC	Maintained / non-maintained	• Operation can be selected by a DIP switch, • IC, C, Local Controller, SLIM model	142 x 30 x 25
TS98254	200 VA	1 VA / 1 W	10±5 mA	230 V DC	Maintained / non-maintained	• Operation can be selected by a DIP switch, • IC, C, Local Controller	150 x 44 x 32
TS98255	625 VA	2 VA / 2 W	400 mA	230 V DC	Maintained / non-maintained	• Operation can be selected by a DIP switch, • C, Local Controller	150 x 44 x 32
TS98271	200 VA	2 VA / 2 W	10±5 mA	N/A	—	• Dimming in emergency mode, • DALI, IC, C, Local Controller	150 x 43 x 32
TS98281	200 VA	1,5 VA / 1,5 W	10±5 mA	220-240 V, 50/60 Hz AC,DC	Maintained / non-maintained	• Operation can be selected by a DIP switch • Phase input • Switch control output, • IC, C, Local Controller	150 x 43 x 32

C = Compatible with Tapsa Control Central Battery Systems

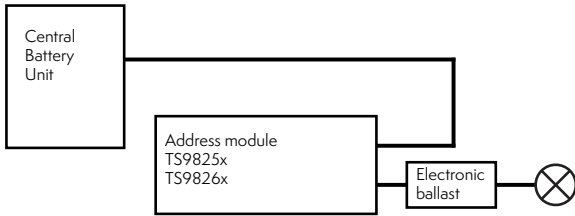
IC = Compatible with Intelligent Controller

Local Controller = Compatible with Local Controller

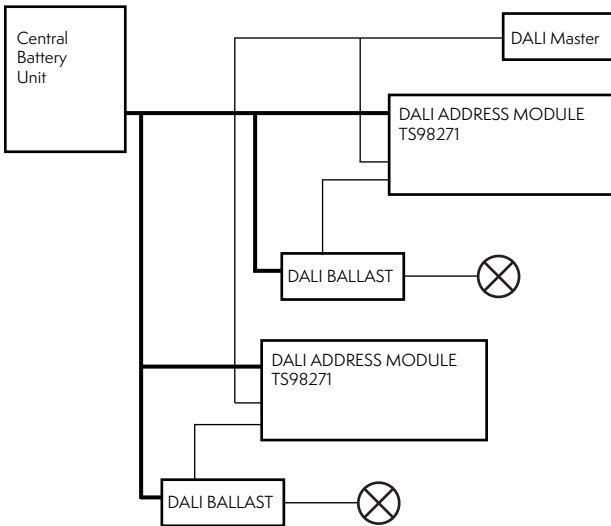
DALI = Compatible with DALI function **NOTE! There are differences in DALI compatible ballasts, depending of both manufacturer and product, please check the compatibility.**

# SEPARATE ADDRESS MODULES - CONNECTIONS

Address module (TS9825x and TS9826x) connection

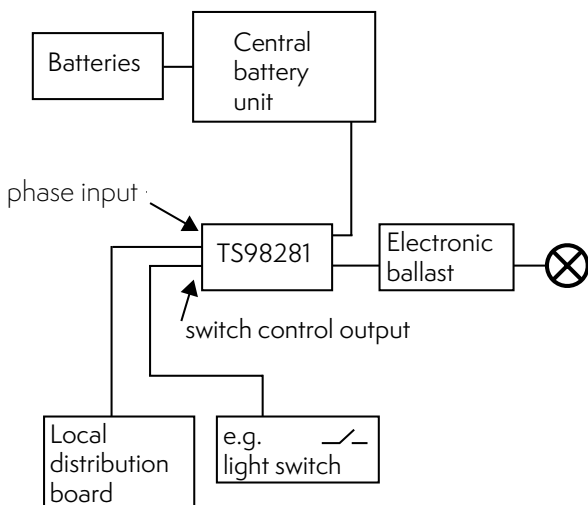


DALI address module (TS98271) connection



TS98271 is a DALI-compatible address module, connected to a luminaire. It simulates the function of DALI-master. Setting of luminous output: 10-100% manually. Saves and resets data of the DALI address module in its memory.

TS98281 address module connection



TS98281 is an address module, with switch and supply monitoring input. Function is similar to the Local Controller and Switch Controller. TST98281 address module is used with one luminaire and with one controlled phase.

# INTELLIGENT CONTROLLER (IC)



Teknoware's IC (Intelligent Controller) system enables a large amount of different options, to turn the non-maintained emergency lights ON and OFF, by using voltage inputs, which can be freely chosen.

At the same time, the voltage of several fuse boxes or general lighting can be monitored. When the voltage in one or several fuse boxes drops out, the selected emergency lights are turned ON, with AC voltage.

In one IC Input Module, there are eight voltage inputs, each of which have their own, galvanic separated L and N connection. Each IC Input Module has its own address, which is set by a DIP switch.

The IC system consists of the following components:

- TKT65C, TKT66C, TKT67C or TKT68C, addressable Tapsa Control Central Battery System
- addressable, K-type emergency Lights
- TST8801, IC Input Module (up to 31 pcs in a single IC system)
- TST6x5x, IC Interface for the Central Battery System (including a PC software, with which the IC system is programmed)

The programming of the IC system settings and the emergency lights is done, using the PC software, during the implementation, via a USB port, into the IC Interface. The programming is saved

in the memory of the Central Battery System, thus, there is no need for the PC except during the programming.

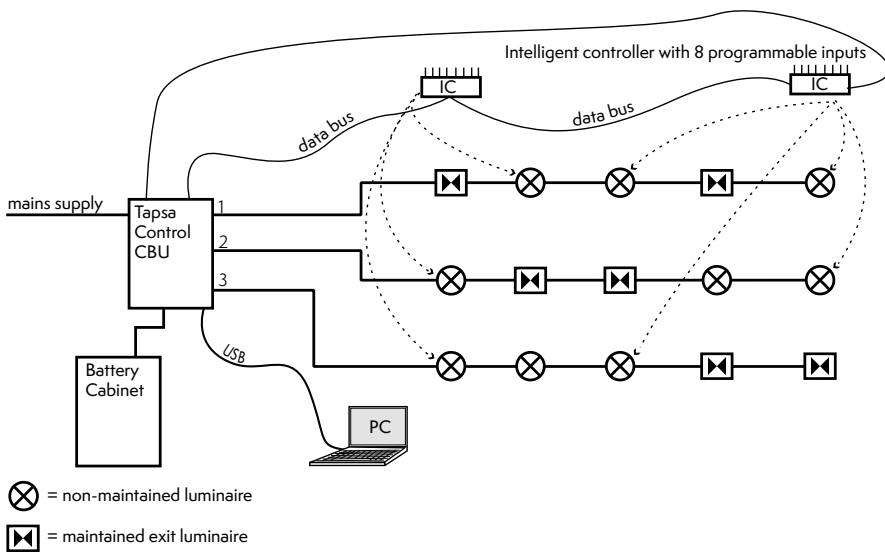
Any input of any of the IC Input Modules can be set to control any luminaire or luminaires, in any circuit. Furthermore, logical switches can be programmed in the IC system. The inputs of an IC Input Module can form groups, which can control the luminaires.

These logical switches work so, that when any switch of any group is activated, the luminaires assigned for it switch ON. Single inputs and logical switches can also be used inverted: when a voltage is fed to an input, the luminaire switches OFF.

Product code	Product description	Dimensions (mm)
TST8801	IC Input Module	105 x 90 x 58



DIN rail compatible TST8801 IC Input Module



⊗ = non-maintained luminaire  
 ◻ = maintained exit luminaire

Product code	Product description	For
TST6551	Interface + IC PC Software	TKT6508C
TST6552	Interface + IC PC Software	TKT6516C
TST6553	Interface + IC PC Software	TKT6524C
TST6651	Interface + IC PC Software	TKT6608Cx
TST6652	Interface + IC PC Software	TKT6616Cx
TST6653	Interface + IC PC Software	TKT6624Cx
TST6752	Interface + IC PC Software	TKT6716C
TST6753	Interface + IC PC Software	TKT6724C
TST6754	Interface + IC PC Software	TKT6732C
TST6755	Interface + IC PC Software	TKT6740C
TST6756	Interface + IC PC Software	TKT6748C
TST6757	Interface + IC PC Software	TKT6756C
TST6851	Interface + IC PC Software	TKT6808Cx
TST6852	Interface + IC PC Software	TKT6816Cx
TST6853	Interface + IC PC Software	TKT6824Cx

# WEBCM & WEBACM



Product code	Product description
TST5161	WebACM Software

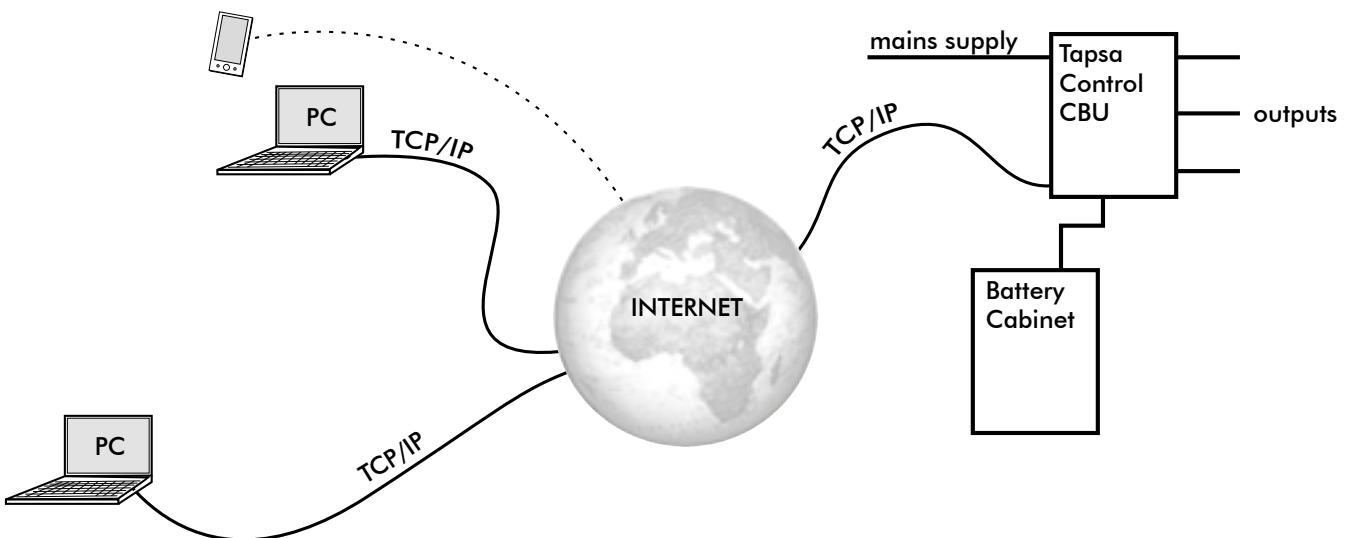
Product code	Product description	For
TST6724	WebCM/ WebACM Interface	TKT67xxC
TST6824	WebCM/ WebACM Interface	TKT68xxC
TST6624	WebCM/ WebACM Interface	TKT66xxC
TST6524	WebCM/ WebACM Interface	TKT65xxC

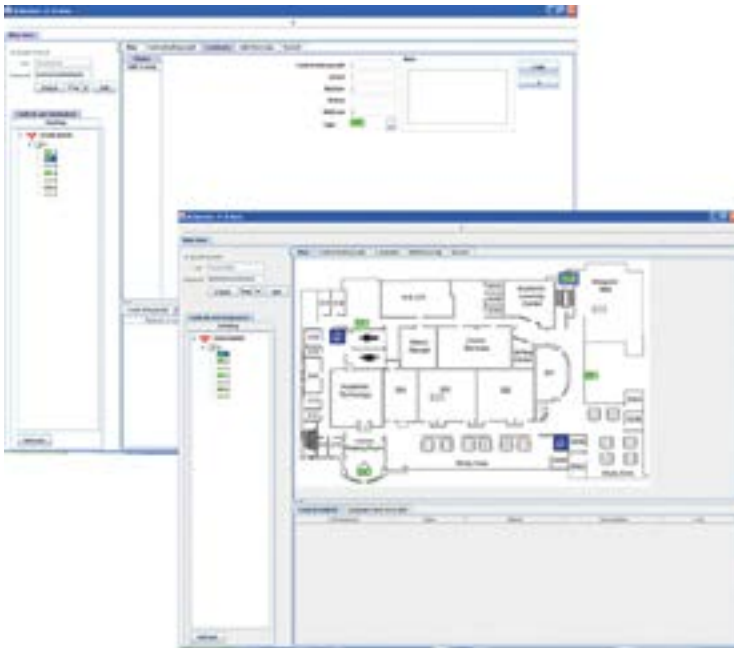
WebCM enables central monitoring of the central battery systems via Internet. The system consists of a Web module connected to a Central Battery System. Each Central Battery System has an individual IP address and an ordinary Internet browser serves as a user interface.

The basic system indicates the state of the Central Battery System and the luminaires connected to it and displays the test log book information. The user may also run luminaire and battery tests.

WebCM is available for the Central Battery Systems in the TKT65, TKT66, TKT67 and TKT68 series, which are equipped with addressable monitoring function.

WebACM is a user-specific software for WebCM system via Ethernet TCP/IP. User-specific software enables the use of a mapping application which indicates the location of the equipment in the building.





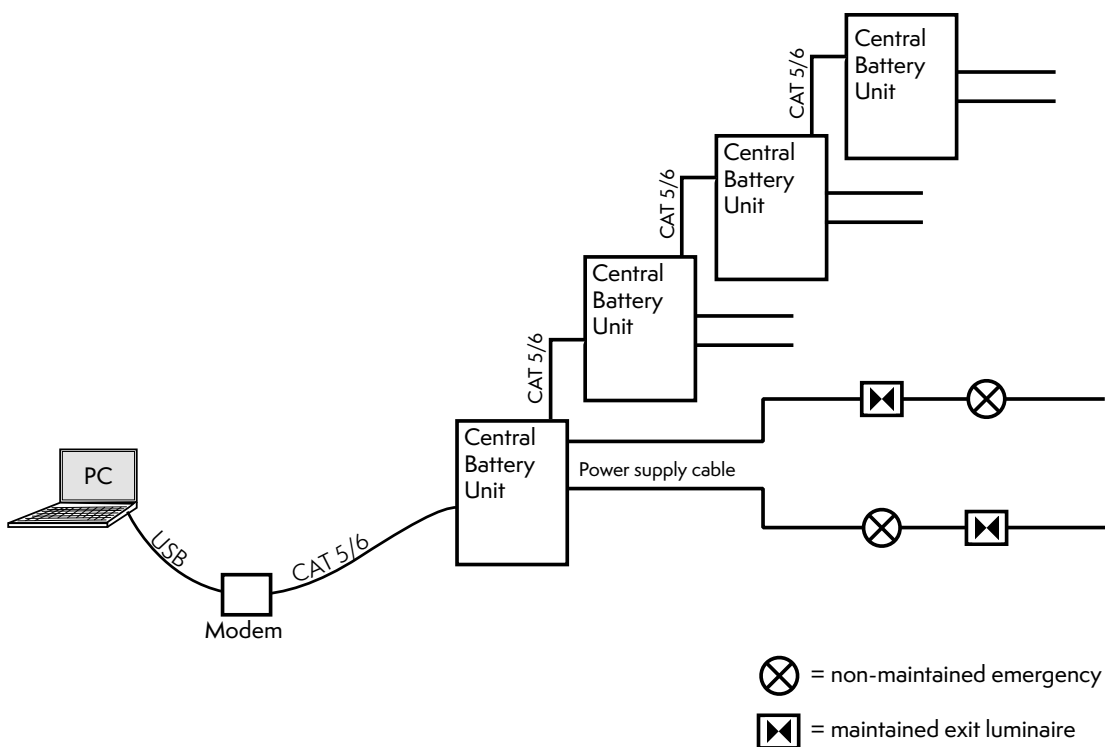
Teknoware's Advanced Central Monitoring (ACM), is a central monitoring system, utilising a separate network, for the Tapsa Control Central Battery Systems. ACM utilises RS485 protocol, which makes communications possible even if the distance between the Central Battery System and the computer is up to 1 km.

ACM's PC Software screen displays the status of all the Central Battery Systems and the luminaires connected to them. The user may also run battery and light tests. ACM saves the test log book information automatically as per the requirements of fire safety authorities. By using the computer equipped with ACM, it is possible to connect, e.g., to a BACnet building automation system

Product code	Product description
TST5131	ACM PC Software and modem
TST5141	ACM PC system with BACnet Interface
TST5171	ACM PC system with additional serial output

Product code	Product description	For
TST6721	ACM Interface	TKT67xxC
TST6821	ACM Interface	TKT68xxC
TST6621	ACM Interface	TKT66xxC
TST6521	ACM Interface	TKT65xxC





# BACNET



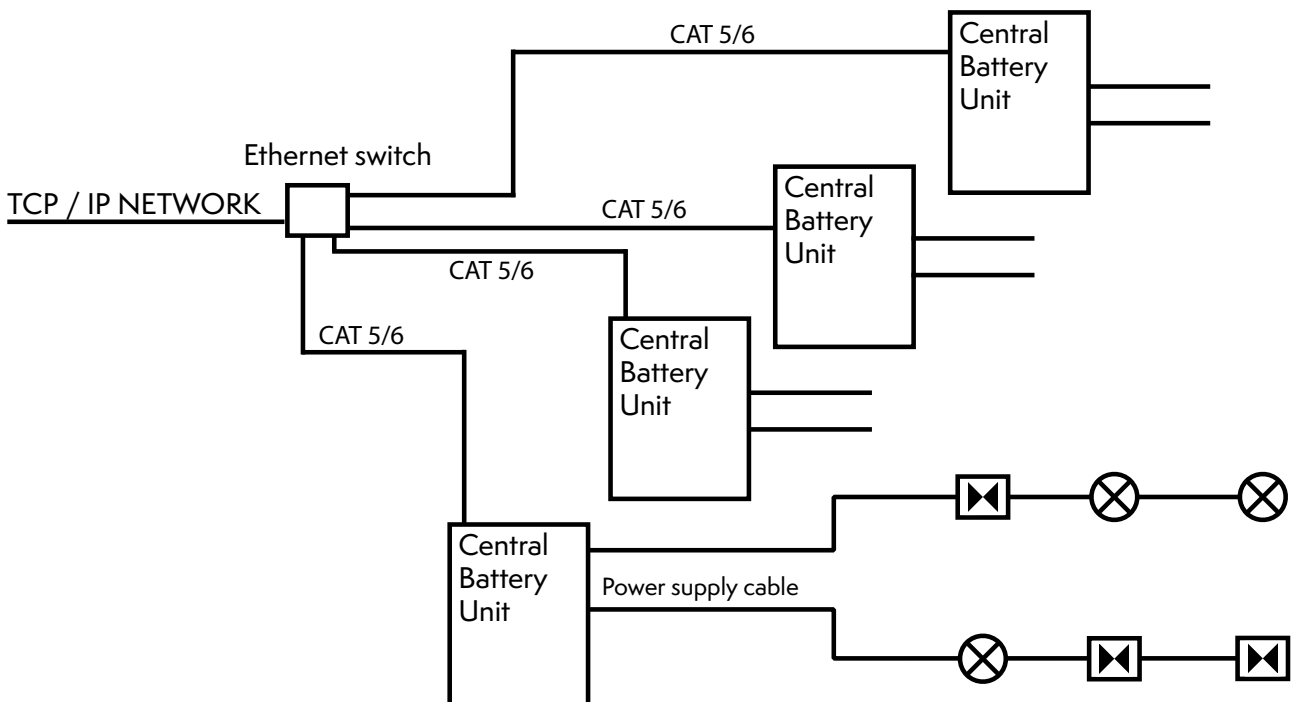
The BACnet module in the Central Battery System allows it to be connected directly to a building automation system. The BACnet application make it possible to access all the information supplied by the Central Battery System. In the BACnet interface, information is transferred as BACnet objects.



Teknoware uses BACnet modules as an interface, to transfer BACnet objects from the Central Battery Systems and the luminaires. Battery and luminaire tests can also be initiated.

PC software can be used to read the information of the Central Battery Systems through the BACnet bus.

Product code	Product description
TST5151	PC Software for BACnet

Product code	Product description	For
TST6701	BACnet Interface	TKT67xxC
TST6823	BACnet Interface	TKT68xxC
TST6601	BACnet Interface	TKT66xxC
TST6501	BACnet Interface	TKT65xxC



-  = non-maintained emergency luminaire
-  = maintained exit luminaire

# LON

Product code	Product description	For
TST6722	LON Interface	TKT67xxC
TST6822	LON Interface	TKT68xxC
TST6622	LON Interface	TKT66xxC
TST6522	LON Interface	TKT65xxC
XKT2301	LON Interface	TK23xxC

Also a separate COBA Software is needed for the PC.

LON central monitoring solution is based on the COBA Building Operating System, which offers a standard open platform for building automation and security systems.

The LON interface also makes it possible to access all information from the field, in a centralised manner.

The system consists of an open LON network and a server, which link the Central Battery Systems together.

