

COLDFACE

Certified controllers and switchboards for cold rooms







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Coldface series Controllers and switchboards provide control of all static or ventilated cold room functions in a single device, with both single-phase and three-phase loads.

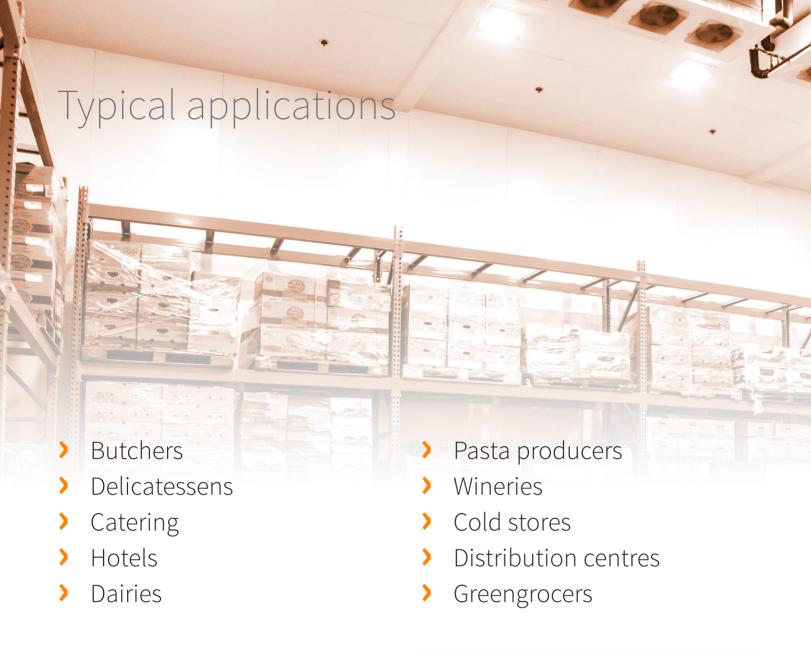
The enclosure, with innovative design for on-board installation, combines ease of installation, water resistance and the capability to house all electromechanical devices required for correct cold room load control and protection.

The versions with door on the front panel allow direct access to the load protection circuit breakers.

The controllers are available with a series of advanced functions, such as HACCP event logging with a yearly calendar, Pump Down control and programmed defrosts.

The Coldface range is certified compliant with the EN61439 - EN60204 standards for low-voltage switchgear for installation on machinery.





- **EWRC 5000 NT EWRC 5010 NT EWRC 5030 NT**
- **EWRC 300 500 NT**
- **EWRC 500 NT 4D**
- IDPanel 978







Plus points



Easy installation

Coldface series controllers and switchboards are easy to install thanks to the following features:

- Fast wiring thanks screw or spring-clamp terminal blocks, direct power supply and large space inside the enclosure
- Guided wall-mounted application for the easiest installation
- Direct access to the manual-reset load protection circuit breakers



User-friendliness

Coldface series controllers and switchboards are easy and intuitive to use thanks to the following features:

- Intuitive user interface
- Direct access to the most used parameters
- Double high-visibility display
- Luminous icons and six large-size keys for direct access to functions



Quick start-up and supervision tools

- Compatibility with Eliwell TelevisGo and TelevsiBlue supervision systems
- Thanks to the Modbus protocol, Coldface is also compatible with third-party supervision systems
- Adaptation to specific applications is fast using UNICARD programming and the DeviceManager software.



The large LED display allows constant monitoring of cold room status



Plus points

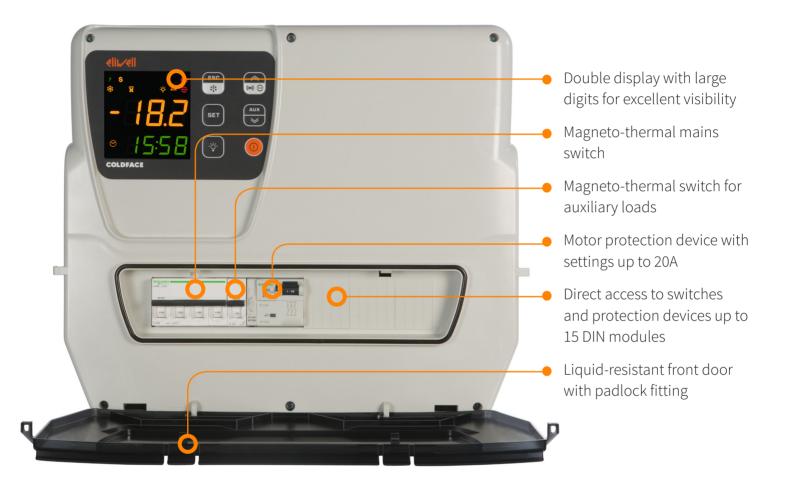


Benefits

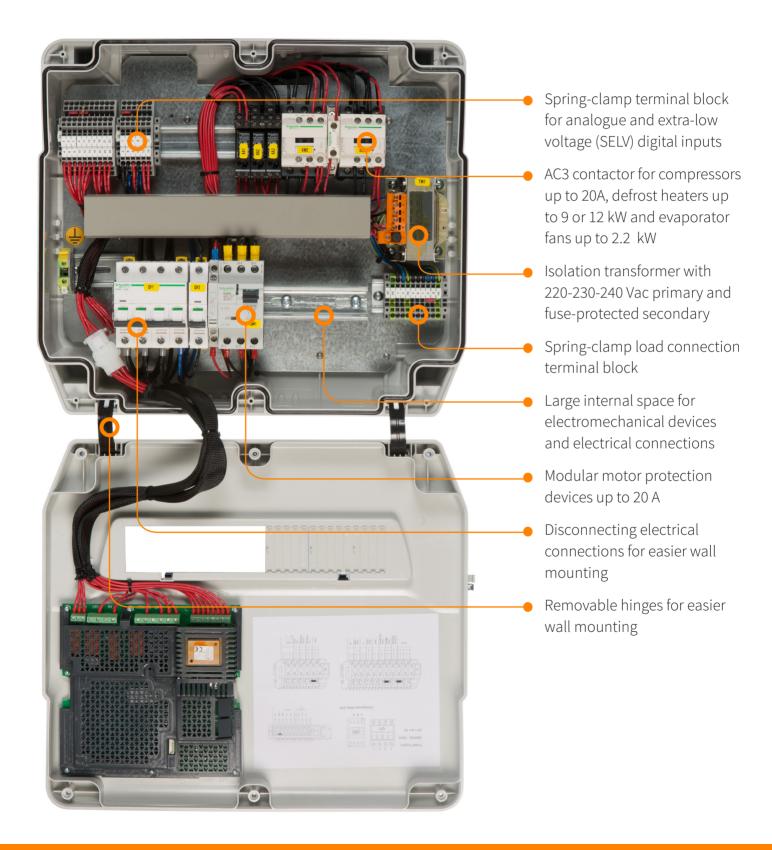
- Direct control of single-phase or three-phase compressors up to 20A
- Single-phase versions up to 5 relay outputs configurable for the complete control of all loads
- Models with clock for programmed defrosts and HACCP functions with yearly calendar
- Easy wall installation, wirings and commissioning
- Highly configurable for every application need
- Large LED display for an immediate view of cold room status
- User-friendly keyboard and associated functions
- Flame retardant enclosure with high internal capacity, resistant to water splashes
- Connectivity to Televis and Modbus monitoring systems provided as standard
- Certified compliant with the European directives covering low-voltage switchgear for installation on machinery.



Everything under control



Plenty of wiring space



General specifications

Line of electrical switchboards for complete control of cold rooms, single-phase or three-phase, with direct compressor control with variable setting protection device, evaporator fan, defrost heater, condenser fan, solenoid valve, cold room light and compressor oil heater.

Front door providing water-splash protection for the interior accommodating up to 15 DIN modules, with direct access to the magneto-thermal switches and variable setting motor protection device.

Thermostat or Pump-Down compressor control.

All connections are on convenient spring-clamp terminal blocks, which combine with efficient enclosure layout for quick, easy electrical connections.

The electronic controller features a series of leading-edge functions, such as HACCP event logging with a yearly calendar.

Connection to Televis or ModBus supervision systems possible with opto-isolated plug-in accessory.

The default configuration covers most applications but offers a high degree of customisation to individual requirements by the installer.

The product is certified compliant with the European directives regulating low-voltage switchgear for installation on machinery (EN61439 - EN60204).



Technical data



	EWRC 5000 NT	EWRC 5010 NT	EWRC 5030 NT
Dimensions	450x380x160 mm		
Enclosure		PC + ABS	
Enclosure rating		IP65	
Installation		Wall	
Display		3 digits + sign and 4 digits	
Display range		NTC: -50110 °C / PTC: -55150 °C	
Resolution		0.1 °C	
Analogue inputs	3 x NTC / PTC*		
Digital inputs	2 voltage-free inputs		
Control type	Single	e-phase	Three-phase
Connections	Screw terminals	Screw termin	als on DIN rail
Auxiliary protection	-	Specific magnet	o-thermal switch
RTC		Present	
HACCP		Present	
Connectivity	TTL and RS485** p	ort for Unicard, TelevisSystem and N	Iodbus RTU systems
Power supply	230 Vac +/-10 % 50/60 Hz 230 Vac (phase + neutral + ground) 400 Vac (3phase + neutral + gro		
Mains switch	- Two-pole magneto-thermal switch Four-pole magneto-thermal swit		
Operating temperature	-535 °C (Max 40 °C non continuous)		
Operating humidity	1090 % RH (non condensing)		

^{*} configurable by user - ** with optional plug-in accessory

Table of codes

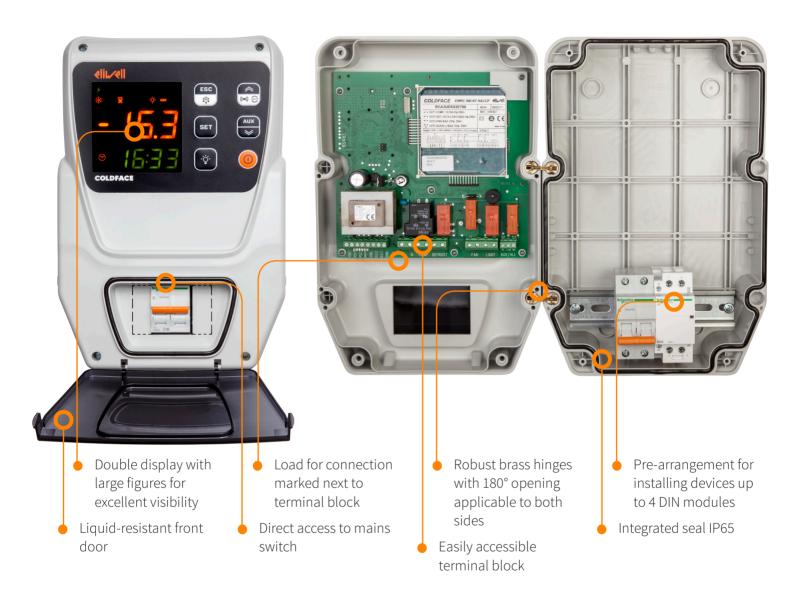
Code	Description	Notes
RCH300DTX*700	EWRC 5000 NT HACCP BZ 230Vac	Electronic Controller only
RCH301DTX*700	EWRC 5010 NT HACCP BZ 2.5-4A 230Vac	HACCP/Buzzer/RTC
RCH302DTX*700	EWRC 5010 NT HACCP BZ 4-6.3A 230Vac	HACCP/Buzzer/RTC
RCH303DTX*700	EWRC 5010 NT HACCP BZ 6-10A 230Vac	HACCP/Buzzer/RTC
RCH304DTX*700	EWRC 5010 NT HACCP BZ 13-18A 230Vac	HACCP/Buzzer/RTC
RCH305DTX*900	EWRC 5030 NT HACCP BZ 2.5-4A 400Vac	HACCP/Buzzer/RTC
RCH306DTX*900	EWRC 5030 NT HACCP BZ 4-6.3A 400Vac	HACCP/Buzzer/RTC
RCH307DTX*900	EWRC 5030 NT HACCP BZ 6-10A 400Vac	HACCP/Buzzer/RTC
RCH308DTX*900	EWRC 5030 NT HACCP BZ 9-14A 400Vac	HACCP/Buzzer/RTC
RCH309DTX*900	EWRC 5030 NT HACCP BZ 13-18A 400Vac	HACCP/Buzzer/RTC
RCH310DTX*900	EWRC 5030 NT HACCP BZ 17-20A 400Vac	HACCP/Buzzer/RTC
RCH311DTX*900	EWRC 5030 NT HACCP BZ 6 kW	HACCP/Buzzer/RTC/Evaporator with 6 kW electric defrost system
RCH312DTX*900	EWRC 5030 NT HACCP BZ 12 kW	HACCP/Buzzer/RTC/Evaporator with 12 kW electric defrost system

^{*}The number in this position indicates the language available for the code: 1: ITA-ENG 2: ENG-AR 3: ITA-SPA 4: FRA-GER 5: GRE-RUS



EWRC 300 NT - EWRC 500 NT

General specifications



Line of electronic controllers for single-phase cold rooms, with direct control of compressors up to 2 HP, evaporator fan, defrost heater, cold room light and alarm.

Front door providing water-splash protection for the interior accommodating up to 4 DIN modules, with direct access to the magneto-thermal mains switch.

Connection to Televis or ModBus supervision systems possible with opto-isolated plug-in accessory.

The product is certified compliant with the European directives regulating low-voltage switchgear for installation on machinery (EN61439 - EN60204).

EWRC 300 NT - EWRC 500 NT

Technical data



	EWRC 300 NT	EWRC 500 NT	EWRC 500 NT BREAKER
Dimensions	213x318	k102 mm	221x318x107 mm
Enclosure		PC + ABS	
Enclosure rating		IP65	
Installation		Wall	
Display		3 digits + sign and 4 digits	
Display range		NTC: -50110 °C / PTC: -55150 °C	,
Resolution		0.1 °C	
Analogue inputs		3(2) x NTC / PTC*	
Digital inputs		2(3) voltage-free	
Digital outputs (default config. *) Compressor	12(12) A 2 HP 250 Vac SPST		
Defrost	8(8) A 1 HP 250 Vac SPST		
Evaporator fan	8(4) A ½ HP 250 Vac SPST		
Light	- 8(8) A 1 HP 250 Vac SPST		250 Vac SPST
Alarm	-	8(4) A ½ HP 2	250 Vac SPDT
Connections		Screw-type	
RTC Clock		Optional	
НАССР		Optional	
Connectivity		RS-485 Televis/ Modbus	
Power supply	230 Vac / 11 VA		
Interruttore	- 230 Vac Icn 4500 A 2P		
Nominal current	- In = 16 A		
Pulse voltage	- 4 KV		4 KV
Operating temperature		-5+50 °C	
Operating humidity	1090 % RH (non condensing)		

^{*} configurable by user

Table of codes

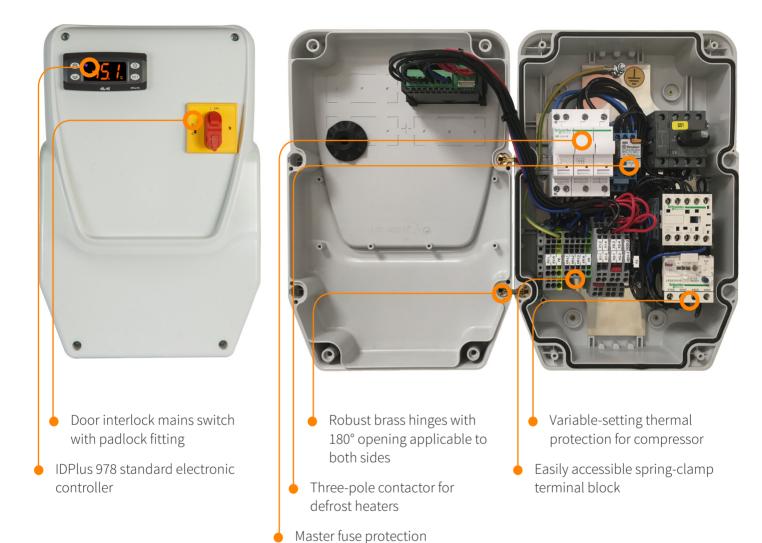
Code	Description	Notes
RCS3HDLX2*700	EWRC 300 NT 2HP BUZZER	Buzzer
RCS3UDLX2*700	EWRC 500 NT 2HP BUZZER	Buzzer
RCS3UDTX2*700	EWRC 500 NT 2HP RTC HACCP BUZ	HACCP/Buzzer/RTC
RCA3UDRX2*700	EWRC 500 NT 2HP BUZ 4DIN W/B	Buzzer/Circuit Breaker
RCA3UDSX2*700	EWRC 500 NT 2HP RTC HACCP BUZ 4DIN W/B	HACCP/Buzzer/Circuit Breaker/RTC
KP00Q1S0	RS485 Plugin 40x49mm screw terminals	Optional module

^{*} The number or letter in this position indicates the language available for the code: 0: ITA; E: ENG; F: FRA; G: GER; O: POL; R: RUS; S:SPA; T:TUR; U:Arabic; W:SWE; Z:BRA



IDPanel 978

General specifications



Line of electrical switchboards for complete control of cold rooms, single-phase or three-phase, with direct control of compressor with variable-setting thermal protection, evaporator fan, defrost heater and cold room light. The use of the widely adopted, well known IDPlus 978 standard controller ensures extremely simple commissioning and use.

All connections are on convenient spring-clamp terminal blocks, which combine with efficient enclosure layout for quick, easy electrical connections.

The electronic controller can be connected to Televis or ModBus supervision systems by means of the BusAdapter external accessory.

The product is certified compliant with the European directives regulating low-voltage switchgear for installation on machinery (EN61439 - EN60204).

IDPanel 978

Technical data



	IDPanel 978 5.5-8A 230 Vac	IDPanel 978 8-11A 230 Vac	IDPanel 978 3.7-5.5A 400 Vac	IDPanel 978 5.5-6 A 400 Vac
Dimensions	213x318x102 mm			
Enclosure		PC+	ABS	
Installation		Wa	all	
Display		3Digits	+ sign	
Display range	N ⁻	TC: -50110 °C / PTC: -55	.140 °C / Pt1000: -55150	°C
Resolution		0.1	°C	
Analogue inputs		2 PTC / NT	C /Pt1000*	
Digital inputs	1 digital (SELV) / analogue (PTC / NTC / Pt1000) / 1 digital (SELV) / serial TTL*			/ serial TTL*
Control type	Single	-phase	Three-	phase
Compressor	1PH 5.5 - 8.0 A	1PH 8.0 -11.0 A	3PH 3.7 - 5.5 A	3PH 5.5 - 6.0 A
Defrost	1PH 800 W 3PH 2400 W			400 W
Evaporator fan	1PH 800 W			
Light		1PH 8	800 W	
Connections		Screw termina	als on DIN bar	
Connectivity	TTL port for connec	tion to Unicard/Copycard	or TelevisSystem/ModBu	s monitoring device*
Power supply	230 Vac (phase +	neutral + ground)	400 Vac (3phase +	neutral + ground)
Door interlock mains switch	25 A			
Operating temperature	-5+40 °C			
Operating humidity	1090 % RH (non condensing)			
General protection	Fuses			
Motor protection		Therma	al relay	

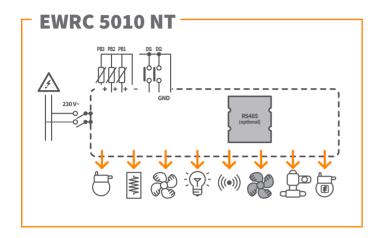
^{*} configurable by user

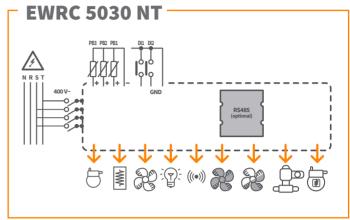
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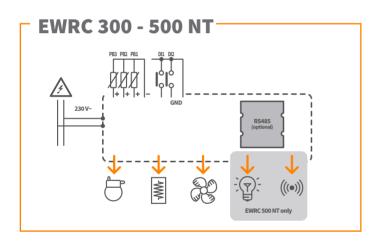
Code	Description	Notes
ELP300DSX0700	IDPanel 978 5.5-8A 230Vac	HACCP/Buzzer
ELP301DSX0700	IDPanel 978 8-11A 230Vac	HACCP/Buzzer
ELP302DSX0900	IDPanel 978 3.7-5.5A 400Vac	HACCP/Buzzer
ELP303DSX0900	IDPanel 978 5.5-6A 400Vac	HACCP/Buzzer

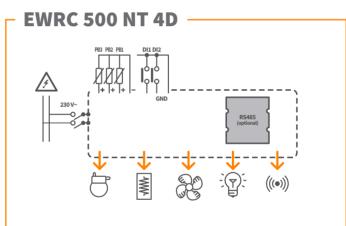


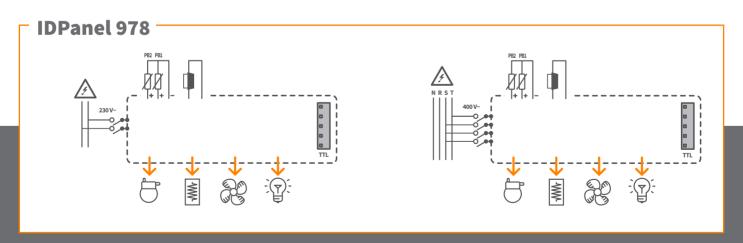
Functional diagrams











Accessories

Interfaces, programming keys

Code	Description	
CC0S00A00M000	Copy Card Programming key for loading/downloading parameters	
CCA0BHT00UU00	UNICARD USB/TTL	

Temperature probes

Code	Description	
SN691150	1.5m thermoplastic rubber cable NTC IP68 and 5X20mm thermoplastic tip	
SN8DED11502C0	1.5m thermoplastic rubber cable NTC IP68 and 5X20mm thermoplastic tip	
SN8DAE11502C0	1.5m thermoplastic rubber cable NTC IP68 and 6X20mm Steel tip	
SN8DED13002C0	3m thermoplastic rubber cable NTC IP68 and 6X20mm Steel tip	
SN8DAE13002C0	3m thermoplastic rubber cable NTC IP68 and 6X20mm Steel tip	

RS485 plug-in (for EWRC 300 - 500 - 5010 - 5030 NT)

Code	Description	o Company
KP00Q1S0	RS485 Plug-in 40x49mm screw terminals	

Other accessories (for EWRC 300 - 500 and IDPanel 978)

Code	Description
ZZ000292	Plug cover TDI 20 (12pcs)
ZZ000291	Brass hinge (12 pcs)



Correlated products

LKD Detection and indication of refrigerant leaks



The state-of-the-art **LKD** series gas sensors can detect a wide range of gases and refrigerants depending on the model:NH3, HFO, HC, HFC and CO2.

LKD series gas sensors can be used alone to control a buzzer, siren, etc., or integrated with Eliwell or third party remote management systems, thanks to an inbuilt RS485 ModBus.

The main applications are: LT or NT cold rooms, refrigerated cabinets and compressor units.

Code	Description	Power supply	
LKD41CO2XR400	LKD 100 mod110 CO2	12/24 V	
LKD41xxxxR400	LKD 100	12/24 V	
LKD66CO2XR400	LKD 200 mod210 CO2	12/24 V	
LKD66xxxxR400	LKD 200	12/24 V	
LKDR4CO2XR400	LKD 100 mod110 5m remote CO2		
LKDR4xxxxR400	LKD 100 5m remote		
LKDSG00000000	LKD Splash Guard -		

xxxx = R220 / R134 / R290 / R404 / R4A7 / R4F7 / R410 / R448 / R449 / R450 / R507 / R513 / R600 / NH3X depending on compatible refrigerant type.

TelevisBlue Cloud solution for installations monitoring



TelevisBlue is the innovative system for completely cloud-based monitoring of small and medium-sized installations, which uses its protected M2M cellular network data connection to transfer data between the installation and the cloud with no need for configuration by the user.

TelevisBlue offers the power of cloud data collection service, accessible via the web, with simple, speedy installation via a pre-activated kit.

CAUTION: the use of the TelevisBlue product and service is subject to acceptance of the terms of service posted on the site www.televisblue.com/terms. For more information on system characteristics, countries where the service is available, and connectible controllers, see the online manual and appendices at www.televisblue.com/help.

Code	Description	Notes
TBR2S**1E0000	TelevisBlue Starter 1Y 2G	12 months' service included Monitoring, Reports and Alarms, Centralised data access
TBR2P**1E0000	TelevisBlue Plus 1Y 2G	12 months' service included Monitoring, Reports and Alarms, Centralised data access and Controller remote maintenance*
SAMANT3B30300	ANTENNA 3B 3m CABLE MCX90/M	Optional external antenna
TBR2X0000GW00	TelevisGate 2G	Only replacement device

^{**} The two figures refer to the maximum number of resources controlled: 01=5; 05=25; 10=50; 30=150; 50=250; 1H=500 resources. Service available in a limited number of Countries. See on-line manual for updated list







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