



# PROBES

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# PROBES

## TEMPERATURE PROBES

### NTC PROBES

The probes with NTC thermistor are designed for applications where high accuracy and the short response time are important. The probes pass several tests, this is why we guarantee a very high reliability.







PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
NS6	General purpose, resinated, IP67, inox steel cap "dimension Ø6x30mm"	PVC 1,5m – 3,0m	-30÷80°C -22÷176°F	
NS6W	General purpose, resinated, IP67, with 6,3mm faston, inox steel cap "dimension Ø6x30mm", for WING K	PVC 1,5m – 3,0m	-30÷80°C -22÷176°F	
NS6S	General purpose, resinated, IP67, inox steel cap "dimension Ø6x30mm"	Silicone 1,5m – 3,0m	-40÷110°C -40÷230°F	
NS6SJ	General purpose, resinated, IP67, 2 pole connector, inox steel cap "dimension Ø6x30mm"	Silicone 1,5m – 3,0m	-40÷110°C -40÷230°F	
NS6SW	General purpose, resinated, IP67, with 6,3mm faston, inox steel cap "dimension Ø6x30mm", for WING K	Silicone 1,5m – 3,0m	-40÷110°C -40÷230°F	
NG6	General purpose, over-molded, IP67, thermoplastic cap "dimension Ø6x15mm"	Thermoplastic 1,5m – 3,0m	-40÷110°C -40÷230°F	
NG6F	General purpose, over-molded, IP67, with 2,8mm faston, thermoplastic cap "dimension Ø6x15mm", for XT11S 12Vac and 24Vac/dc	Thermoplastic 1,5m – 3,0m	-40÷110°C -40÷230°F	
NG6W	General purpose, over-molded, IP67, with 6,3mm faston, thermoplastic cap "dimension Ø6x15mm", for WING K	Thermoplastic 1,5m – 3,0m	-40÷110°C -40÷230°F	
NG6K	General purpose, over-molded, IP68, Hot Key connector, thermoplastic cap "dimension Ø6x15mm"	Thermoplastic 1,5m – 3,0m	-40÷110°C -40÷230°F	

<b>NG6P</b>	General purpose, over-molded, IP68, cap "dimension Ø5x20mm"	Thermoplastic 1,5m - 3,0m	-40÷110°C -40÷230°F	
<b>NG6PJ</b>	General purpose, over-molded, 2 pole connector, cap "dimension Ø5x20mm"			
<b>NX6P</b>	Thermoplastic, IP68, inox steel cap "dimension Ø6x20mm"	Thermoplastic 1,5m - 3,0m	-40÷110°C -40÷230°F	
<b>NX6PJ</b>	Thermoplastic, IP68, 2 pole connector, inox steel cap "dimension Ø6x20mm"			
<b>NY6P</b>	Thermoplastic, IP68, inox steel cap "dimension Ø6x50mm"	Thermoplastic 1,5m - 3,0m	-40÷110°C -40÷230°F	
<b>NY6PJ</b>	Thermoplastic, IP68, 2 pole connector, inox steel cap "dimension Ø6x50mm"			
<b>NP4-67</b>	Pipemount fitting "Ø4÷Ø30mm in diameter", IP67, over-molded, copper sensor	Thermoplastic 1,5m - 3,0m	-40÷110°C -40÷230°F	
<b>NT6-67</b>	Pipemount fitting "Ø4÷Ø30mm in diameter", IP67, over-molded, thermoplastic sensor			
<b>NT6</b>	Pipemount fitting	PVC 1,5/2,0m	0÷80°C 32÷176°F	
<b>N6F2</b>	General purpose, resinated, IP67, with 2,8mm faston, double insulation, nylon cap "dimension Ø7x30mm", for XT11S 230Vac	PVC 1,5/2,0m	-30÷105°C -22÷221°F	

## PTC PROBES



The probes with PTC thermistor are designed for both cooling and heating applications.

The temperature range is -50÷150°C (-58÷302°F).

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
<b>S6</b>	General purpose, resinated, IP67, inox steel cap "dimension Ø6x30mm"	PVC 1,5m - 3,0m	-30÷80°C -22÷176°F	
<b>S6.R</b>	Water proof, resinated, IP67, inox steel cap "dimension Ø6x40mm"	PVC 1,5m - 3,0m	-30÷80°C -22÷176°F	
<b>S6.S</b>	Water proof, resinated, inox steel cap "dimension Ø6x40mm"	Silicone 1,5m - 3,0m	-50÷120°C -58÷248°F	
<b>S6.SH</b>	Heating applications, inox steel cap "dimension Ø6x40mm"	Silicone 1,5m - 3,0m	-50÷150°C -58÷302°F	
<b>SA6</b>	Perforated for air, inox steel cap "dimension Ø6x30mm"	PVC 1,5m - 3,0m	0÷80°C 32÷176°F	
<b>ST6</b>	Pipemount fitting	PVC 1,5m - 3,0m	0÷80°C 32÷176°F	
<b>SC5.5</b>	Probe fixed with threaded male, inox steel cap "dimension Ø6x80mm"	PVC 1,5m - 3,0m	-30÷80°C -22÷176°F	


## Pt1000 PROBES

Pt1000 probes are suitable for all applications where the temperature is between  $-50\div 120^{\circ}\text{C}$  ( $-58\div 248^{\circ}\text{F}$ ) and it is important to maintain precision over long distances.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
PMG5P	Thermoplastic, resinated, IP68, cap "dimension $\varnothing 5 \times 20\text{mm}$ "	Thermoplastic 1,5m - 3,0m	$-50\div 110^{\circ}\text{C}$ $-58\div 230^{\circ}\text{F}$	
PMP4-67	Pipemount fitting " $\varnothing 4\div \varnothing 30\text{mm}$ in diameter", IP67, over-molded, copper sensor	Thermoplastic 1,5m - 3,0m	$-50\div 110^{\circ}\text{C}$ $-58\div 230^{\circ}\text{F}$	
PMT6-67	Pipemount fitting " $\varnothing 4\div \varnothing 30\text{mm}$ in diameter", IP67, over-molded, thermoplastic sensor	Thermoplastic 1,5m	$-50\div 120^{\circ}\text{C}$ $-58\div 248^{\circ}\text{F}$	




## PRODUCT PROBE NTC/Pt1000

The product probes with NTC or Pt1000 sensors allow the simulation and display of product temperature and manage alarms according to the temperature near the product and not the air around it. Thanks to the magnets, these probes are particularly suitable for use on shelves.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
NGPOP	NTC sensor, thermoplastic, IP68, 100x100mm	Thermoplastic 5m	$-40\div 110^{\circ}\text{C}$ $-40\div 230^{\circ}\text{F}$	
PMGPOP	Pt1000 sensor, thermoplastic, IP68, 100x100mm	Thermoplastic 5m	$-50\div 120^{\circ}\text{C}$ $-58\div 248^{\circ}\text{F}$	




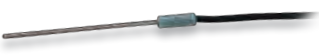
## PTC/NTC INSERT PROBES

The insert probes with PTC or NTC sensor are suitable for applications where it is important to know the core temperature of goods. They are generally used together with cooking oven or blast chiller controllers.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
SPC10PS	PTC sensor, plastic handle, inox steel cap "dimension $\varnothing 3,5 \times 100\text{mm}$ "	Silicone 3m	$-38\div 80^{\circ}\text{C}$ $-36\div 176^{\circ}\text{F}$	
NPC10PS	NTC sensor, plastic handle, inox steel cap "dimension $\varnothing 3,5 \times 100\text{mm}$ "	Silicone 3m	$-30\div 80^{\circ}\text{C}$ $-86\div 176^{\circ}\text{F}$	
SPC10IS	PTC sensor, plastic handle, inox steel cap "dimension $\varnothing 3,5 \times 100\text{mm}$ "	Silicone 3m	$-50\div 120^{\circ}\text{C}$ $-58\div 248^{\circ}\text{F}$	
NPC10IS	NTC sensor, plastic handle, inox steel cap "dimension $\varnothing 3,5 \times 100\text{mm}$ "	Silicone 3m	$-50\div 120^{\circ}\text{C}$ $-58\div 248^{\circ}\text{F}$	
SPC10IA	PTC sensor, plastic handle, inox steel cap "dimension $\varnothing 3,5 \times 100\text{mm}$ "	Silicone for use with food 3m	$-50\div 120^{\circ}\text{C}$ $-58\div 248^{\circ}\text{F}$	
NPC10IA	NTC sensor, plastic handle, inox steel cap "dimension $\varnothing 3,5 \times 100\text{mm}$ "	Silicone for use with food 3m	$-50\div 120^{\circ}\text{C}$ $-58\div 248^{\circ}\text{F}$	

## Pt100 THERMORESISTORS

Thermoresistance (RTD) probes are suitable when a high precision and low response time is necessary. The operating range of the Pt100 sensor is from  $-70\div 500^{\circ}\text{C}$  ( $-94\div 932^{\circ}\text{F}$ ), the precision is according to standard IEC751.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
PT6	General purpose, 3 wires, inox steel cap "dimension $\varnothing 6 \times 100\text{mm}$ "	PVC 2m	$-30\div 105^{\circ}\text{C}$ $-22\div 221^{\circ}\text{F}$	
PT6.S	Protected, 3 wires, inox steel cap "dimension $\varnothing 6 \times 100\text{mm}$ "	Silicone 2m	$-60\div 200^{\circ}\text{C}$ $-76\div 392^{\circ}\text{F}$	
PT6.F	Protected, 3 wires, inox steel cap "dimension $\varnothing 6 \times 100\text{mm}$ "	Vetrotex 2m	$-60\div 350^{\circ}\text{C}$ $-76\div 662^{\circ}\text{F}$	
PT310	Compact, with male connection, 2 wires, inox steel cap "dimension $\varnothing 3 \times 100\text{mm}$ "	Silicone 2m	$-70\div 500^{\circ}\text{C}$ $-94\div 932^{\circ}\text{F}$	
PT315	Compact, with male connection, 2 wires, inox steel cap "dimension $\varnothing 3 \times 150\text{mm}$ "	Silicone 2m	$-70\div 500^{\circ}\text{C}$ $-94\div 932^{\circ}\text{F}$	

## TC THERMOCOUPLES

Thermocouple (TC) probes are suitable when a short response time and high shock resistance are necessary. The operating range of the TCJ sensor is from  $0\div 600^{\circ}\text{C}$  ( $32\div 1112^{\circ}\text{F}$ ) and the range of the TCK is from  $0\div 1150^{\circ}\text{C}$  ( $32\div 2102^{\circ}\text{F}$ ), the precision is according to standard IEC584-2.

PROBE	DESCRIPTION	TEMP. RANGE	
TJ6	General purpose, protected, Fe-CO, cap "dimension $\varnothing 6 \times 100\text{mm}$ ", 2,0/3,0m vetrotex cable	$0\div 350^{\circ}\text{C}$ $32\div 662^{\circ}\text{F}$	
TK6	General purpose, protected, Cr-Al, cap "dimension $\varnothing 6 \times 100\text{mm}$ ", 2,0/3,0m vetrotex cable	$0\div 350^{\circ}\text{C}$ $32\div 662^{\circ}\text{F}$	
TJD215	DIN connector, Fe-CO, cap "dimension $\varnothing 2 \times 150\text{mm}$ "	$0\div 600^{\circ}\text{C}$ $32\div 1112^{\circ}\text{F}$	
TJD320	DIN connector, Fe-CO, cap "dimension $\varnothing 3 \times 200\text{mm}$ "	$0\div 600^{\circ}\text{C}$ $32\div 1112^{\circ}\text{F}$	
TKD215	DIN connector, Cr-Al, cap "dimension $\varnothing 2 \times 150\text{mm}$ "	$0\div 1150^{\circ}\text{C}$ $32\div 2102^{\circ}\text{F}$	
TKD320	DIN connector, Cr-Al, cap "dimension $\varnothing 3 \times 200\text{mm}$ "	$0\div 1150^{\circ}\text{C}$ $32\div 2102^{\circ}\text{F}$	
CMJ	Compensating female connector, Fe-CO, for TJD215 and TJD320	$-40\div 200^{\circ}\text{C}$ $-40\div 392^{\circ}\text{F}$	
CMK	Compensating female connector, Cr-Al, for TKD215 and TKD320	$-40\div 200^{\circ}\text{C}$ $-40\div 392^{\circ}\text{F}$	

## TEMPERATURE/HUMIDITY PROBES

Temperature/humidity probes for HVAC/R with DEW POINT calculation and RS485 output with ModBUS protocol. XH50P and XH55P are the ideal solution for anti-sweat heater control; these special probes, ideal for already existent plants, allow anti-sweat heater operation according to dew point conditions of the retail space. Through the correct calibration of Dixell algorithms, it is possible to obtain a proportional change of the operating voltage range of anti-sweat heaters, optimizing its consumption and increasing the energy saving on the average used power of the anti-sweat heaters.

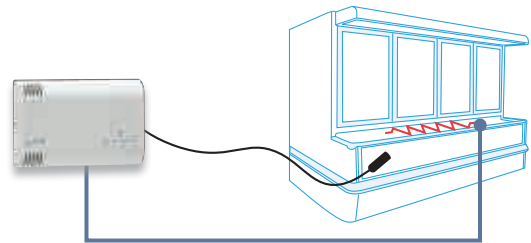


- Available in 2 versions: **XH50P** (without knob), **XH55P** (with knob)
- LED to display the device status
- Wall mounting (503 box dim. compatible)
- Self extinguishing ABS housing

The XH50P and XH55P probes, depending on the actual needs, can be used stand-alone or in centralized applications combined with XM600 controllers for multiplexed cabinets and XWEB5000 supervising system.

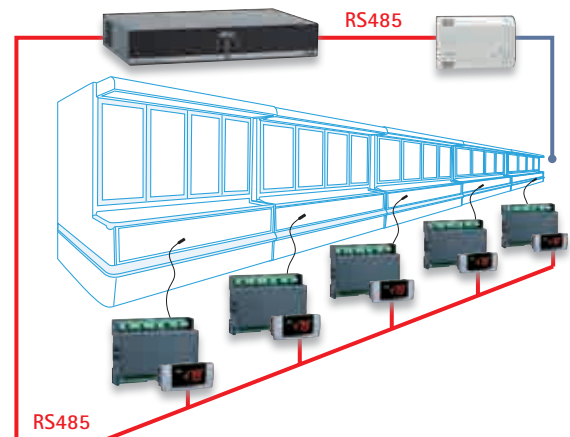
### STAND-ALONE APPLICATION

- Based on the Dew Point estimate through the temperature and humidity measurement
- Thermostat control of anti-sweat heaters on a programmable value higher than the Dew Point
- Anti-sweat heaters control directly from XH



### CENTRALIZED MANAGEMENT

- Use of Dew Point sensors
- Management of anti-sweat heaters set point through Supervising
- Direct control of anti-sweat heaters from the counter controller
- Possibility to manage regulation parameters in groups

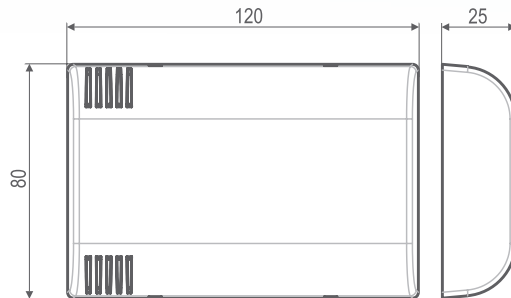
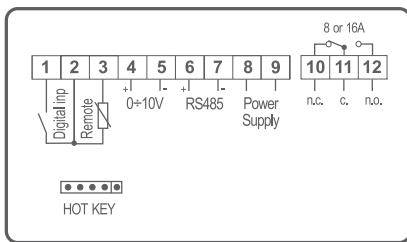


### HOW to ORDER

XH50/55P X H 5 P - O N C D E

C	D	E
Analog output	Measurement unit	Relay output
0 = No	C = °C	1 = 8A
1 = Yes	F = °F	2 = 16A

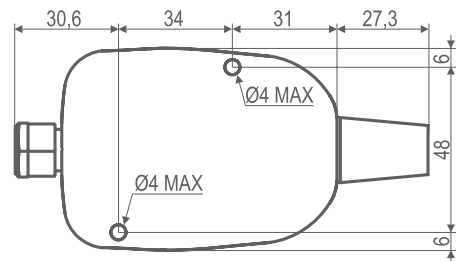
FEATURES	XH50P	XH55P
Knob		pres
Power supply	12÷24Vac/dc - 12÷40Vdc	12÷24Vac/dc - 12÷40Vdc
Remote probe input	NTC	NTC
Digital input	free of voltage	free of voltage
Configurable relay output	8A, 16A	8A, 16A
Hot Key output	pres	pres
Serial output	RS485	RS485
Analog output	0÷10V opt	0÷10V opt



## HUMIDITY PROBES

XH10P and XH20P humidity probes are suitable for all those applications where it is necessary to detect and control humidity. Such applications are: refrigeration, drying processes and more. Depending on the model, they supply a standard output current (4÷20mA) or voltage (0÷10V) signal. The high accuracy, the appropriate lead time and the sensor reliability also in cases with condensation, make these probes extremely effective.

- Wall mounting
- Power consumption: 22mA max
- Protection: IP65
- Operating range: humidity 30÷90% for XH10P and 0÷99% for XH20P



### HOW to ORDER

XH10/20P X H O P - O B O O O

B

#### Output

0 = 4÷20mA

1 = 4÷10Vdc

FEATURES	XH10P		XH20P	
Power supply	9÷18Vdc	15÷35Vdc - 12÷24Vac	9÷18Vdc	15÷35Vdc - 12÷24Vac
Output	4÷20mA	0÷10Vdc	4÷20mA	0÷10Vdc
Accuracy	±5%	±5%	±3%	±3%
Operating temperature	0÷60°C (32÷140°F)	0÷60°C (32÷140°F)	0÷70°C (32÷158°F)	0÷70°C (32÷158°F)
Storage temperature	-30÷85°C (22÷185°F)	-30÷85°C (22÷185°F)	-30÷85°C (22÷185°F)	-30÷85°C (22÷185°F)
Measurement range	30÷90%RH	30÷90%RH	0÷99%RH	0÷99%RH

## PRESSURE PROBES

### PRESSURE TRANSDUCERS

Pressure transducers supply a standard output current signal (4÷20mA). The silicon sensor is assembled in a waterproof steel housing filled with oil that optimizes stable and constant measurement with additional protection against vibrations and a duration equivalent to millions of pressure cycles. The tip of the probe allows placement in contact with ammonia and various other kinds of corrosive gases.

<b>PP07</b>	2 wires transducer with 4÷20mA output and measurement range -0,5÷7bar (male or female fitting)
<b>PP11</b>	2 wires transducer with 4÷20mA output and measurement range -0,5÷11bar (male or female fitting)
<b>PP30</b>	2 wires transducer with 4÷20mA output and measurement range 0÷30bar (male or female fitting)
<b>PP50</b>	2 wires transducer with 4÷20mA output and measurement range 0÷50bar (male or female fitting)

### FEATURES

Power supply	8÷28Vdc
Output	4÷20mA
Protection	IP65
Operating temperature	-40÷135°C (-40÷275°F)
Storage temperature	-40÷135°C (-40÷275°F)
Accuracy	1% F.S.

### RATIOMETRIC PRESSURE TRANSDUCERS

Pressure transducers supply a standard output ratiometric signal (0÷5V). The design is ideal for demanding HVAC and refrigeration applications where long term reliability is necessary. The electrical interface is a rugged industry-accepted connector. This device maintains accuracy through a wide range of temperatures.

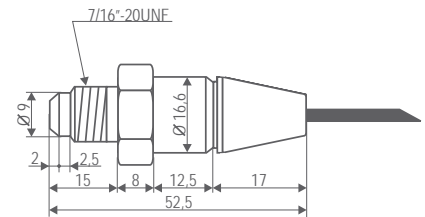
<b>PPR15</b>	3 wires ratiometric transducer with 0÷5V output and measurement range 0÷15bar
<b>PPR30</b>	3 wires ratiometric transducer with 0÷5V output and measurement range 0÷35bar
<b>PPR45</b>	3 wires ratiometric transducer with 0÷5V output and measurement range 0÷45bar

### FEATURES

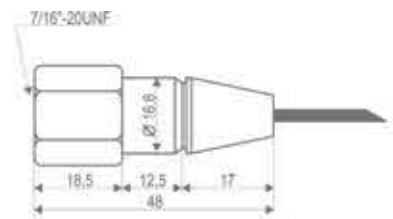
Power supply	4,5÷5,5Vdc
Output	0,5÷4,5Vdc
Protection	IP65
Operating temperature	-40÷135°C (-40÷275°F)
Storage temperature	-40÷135°C (-40÷275°F)
Accuracy	1,2% F.S.



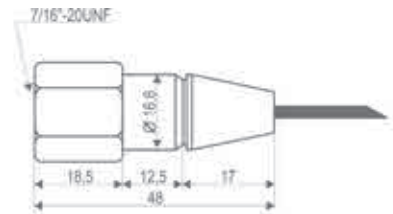
MALE FITTING



FEMALE FITTING



FEMALE FITTING

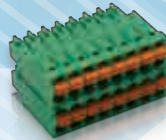




# ACCESSORIES

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## ACCESSORIES



### MODEM



#### MODEM and ANTENNA

<b>XWEB MODEM</b>	For XWEB, IPG115 and IPG215	Analogue serial modem PDA compatible, 56kbps (DIN Rail format) HOW to ORDER: XWEBMODEM-200 (with 24Vac power supply) XWEBMODEM-400 (with 110Vac power supply) XWEBMODEM-500 (with 230Vac power supply)	
<b>TC35-KIT</b>	For XWEB300D/500D, XWEB500, IPG115 and IPG215	GSM modem kit containing the modem, the power supply unit, the transmitting antenna with the relevant cable and the connection to controlling system	
<b>XW-ANT</b>	For XWEB300D/500D and IPL500D	GSM/GPRS antenna with magnetic base and 2,5m cable	


### ENERGY ANALYSERS

#### ENERGY ANALYSERS

<b>EM21D</b>	Single/three-phase energy meter, CT-connected (5A), RS485 output. Self power supply. Dimensions: 71,7x71,7x64,6mm. DIN Rail or panel mounting. Housing: ABS self-extinguishing. Operating temperature: -25÷55°C (-13÷131°F). Relative humidity < 90%	
<b>EM23D-1P</b>	Single-phase energy meter, direct connected with integrated current transformers, with RS485 output. Current inputs 10(65)A, voltage 230VLN. Self power supply. Dimensions: 71,6x90x66,3mm. DIN Rail mounting. Housing: ABS self-extinguishing. Operating temperature: -25÷55°C (-13÷131°F). Relative humidity < 90%	
<b>EM23D-3P</b>	Three-phase energy meter, direct connected with integrated current transformers, with RS485 output. Current inputs 10(65)A, voltage 230VLN. Self power supply. Dimensions: 71,6x90x66,3mm. DIN Rail mounting. Housing: ABS self-extinguishing. Operating temperature: -25÷55°C (-13÷131°F). Relative humidity < 90%	


<b>WM14D</b>	Three-phase power analyser, with RS485 output. 90÷260Vac power supply. Dimensions: 107,5x90x63mm. DIN Rail and wall mounting. Housing: ABS self-extinguishing. Operating temperature: 0÷55°C (32÷131°F). Relative humidity < 90%	
<b>WM22D</b>	Single/three-phase power analyser 400Vac, with RS485 output. 230Vac power supply. Dimensions: 162,5x90x63mm. DIN Rail and wall mounting. Housing: ABS self-extinguishing. Operating temperature: 0÷55°C (32÷131°F). Relative humidity < 90%	

## TRANSFORMERS for ANALYSERS



<b>TA100-5</b>	Current transformer to use with EMD21D and WM14D controllers. DIN Rail, bus-bar and wall mounting. Primary winding current 100A. Secondary winding current 5A	
<b>TA200-5</b>	Current transformer to use with EMD21D and WM14D controllers. DIN Rail, bus-bar and wall mounting. Primary winding current 200A. Secondary winding current 5A	

## WIRING



### ETHERNET PATCH CABLES

<b>CAB/WEB/NET</b>	For iPro and XWEB	Ethernet patch cable, 3m	
<b>CAB/WEB/PC</b>	For iPro and XWEB	Ethernet patch cross over cable, 1m	

### WIRING for XC600CX

<b>CAB/CJ15</b>	For XC645CX, XC650CX and XC652CX	Connector with 1,5m wires for HP, DI inputs and analog outputs	
<b>CAB/CJ30</b>	For XC645CX, XC650CX and XC652CX	Connector with 3m wires for HP, DI inputs and analog outputs	
<b>CW15-KIT</b>	For XC650CX and XC652CX	2 disconnectable female connectors, 12-14 pins with wires 1,5m	
<b>CW25-KIT</b>	For XC650CX and XC652CX	2 disconnectable female connectors, 12-14 pins with wires 2,5m	
<b>CWC15-KIT</b>	For XC645CX	2 disconnectable female connectors, 6-14 pins with wires 1,5m, for models with internal triac	
<b>CWC30-KIT</b>	For XC645CX	2 disconnectable female connectors, 6-14 pins with wires 3m, for models with internal triac	



### WIRING for XEV and iPro

<b>DWXEV30</b>	For XEV20D	1 disconnectable female connector, 12 pins with wires 3m	
<b>DWS30-KIT</b>	For IPG108D and IPG108E	2 disconnectable female connectors, 12-16 pins with wires 3m	
<b>DWEX306-30KIT</b>	For IPX306D	2 disconnectable female connectors, 10-16 pins with wires 3m	
<b>DWB30-KIT</b>	For IPG115D	3+3 disconnectable female connectors, 6-8-10 pins and 10-16-22 pins with wires 3m	
<b>DWEX60-30KIT</b>	For IPX106D	1+2 disconnectable female connectors, 8 and 10-16 pins with wires 3m	



<b>DWX115-30KIT</b>	For IPX115D	3+3 disconnectable female connectors, 6-8-10 pins and 10-16-22 pins with wires 3m	
<b>DWEX70-30KIT</b>	For IPX125D	5+3 disconnectable female connectors, 6-6-8-8-10 pins and 10-16-22 pins with wires 3m	
<b>IP-FC108</b>	For IPG108D and IPG108E	1+1 screw female connectors, 7 and 12 pins	
<b>IP-FC208</b>	For IPG208D, IPG208E and IPR208D	1+1 screw female connectors, 7 and 12 pins and 2 bayonet female connectors 12-16 pins	
<b>IP-FC215CP</b>	For IPG215D, IPG215F and IPR215D	6 screw female connectors, 2-3(x2)-6-7-8 pins and 3 bayonet female connectors 10-16-22 pins	
<b>IP-FCEX60</b>	For IPX206D	1 screw female connector, 12 pins and 2 bayonet female connectors 10-16 pins	
<b>IP-FCX215</b>	For IPX215D	6 screw female connectors, 2-3(x2)-6-7-8 pins and 3 bayonet female connectors 10-16-22 pins	
<b>IP-FCEX70</b>	For IPX225D	9 screw female connectors, 2-3(x3)-5-6(x2)-7-8 pins and 3 bayonet female connectors 10-16-22 pins	
<b>IP-FC500</b>	For IPL500D	2 screw female connectors 2-9 pins	

## PROGRAMMING

### PROGRAMMING TOOL

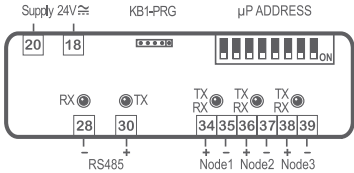
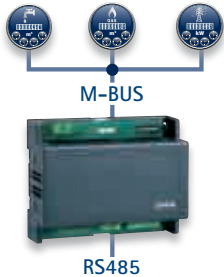
<b>WIZMATE PROG-TOOL KIT</b>	<p>Programming kit made up of CD and DIN RAIL module (PROG-TOOL) with connections for Hot Key and RS485 for Dixell instruments; it allows the user to connect controllers to a PC running Windows 2000/XP OS. The CD-rom includes: WIZMATE (to program an instrument or a Hot Key). The Kit includes: the CAB/PTK2 wire for DIN module instrument connection, the CAB/PTK485 wire for DIN module RS485 (built-in) instrument connection, the RS232-USB-CONV converter for PC connections</p> <p>HOW to ORDER:  WIZMATE PROG-TOOL KIT 110V (with 110Vac power supply)  WIZMATE PROG-TOOL KIT 230V (with 230Vac power supply)</p>	
<b>XJ485USB-KIT</b>	<p>The USB to RS485 serial converter (2 wires) is the perfect choice to interface any computer, equipped with WIZMATE® software and a USB port, to a network of instruments. XJ485USB is only 78x40x22mm and supports different communication speeds in the range from 300 to 19200bps. The kit includes the USB cable type A-B, 1,5m and a USB with the drivers for the main operative systems (Microsoft Windows, Linux, MAC OS) and a WIZMATE® software version</p>	

## PROGRAMMING KEYS

<b>HOT KEY</b>	Key for a quick and easy Dixell's controllers programming. Dimensions 0,8x16x46mm	
<b>HOT KEY 128</b>	Key for a quick and easy XB570L controller programming. Dimensions 0,8x16x46mm	
<b>VISOKEY</b>	Programming key for Visograph keyboard. Dimensions 0,8x16x46mm	
<b>PROG KEY</b>	Programming key for firmware update. Dimensions 0,8x16x46mm	


## GATEWAY

### GATEWAY for M-BUS METERS

<b>i-METER</b>	<p>M-Bus - ModBUS-RTU Slave protocol converter, used to centralize and read the consumption data of the energy meters (electricity, gas or water). i-METER is ideal for monitoring energy consumption and control of system leaks.</p> <p>Housing: 8 DIN Protection: IP50 Connections: screw terminals Power supply: 24 Vac/dc <math>\pm</math> 10% N° of nodes that can be connected: max 3 Certified models: ISTA (Istameter, Domaqua, Sensonic II)</p>	 
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## REMOTE DISPLAY

### REMOTE DISPLAY


<b>X-REP</b>	<p>Remote display for temperature reading to be used with compatible Dixell's controllers. The front panel is IP65 and makes the installation easy wherever the controlled temperature needs to be displayed. Display: n° digits <math>\pm</math> 3 d.p. Power Supply: from the controller HOW to ORDER: X-REP-00000 X-REP-10000 (for XJA, XJP)</p>	
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### CABLES for REMOTE DISPLAY

<b>CAB/REP1</b>	Multipolar connector for X-REP, 1m; to use with WING, XM, XB series	
<b>CAB/REP3</b>	Multipolar connector for X-REP, 3m; to use with WING, XM, XB series	
<b>CAB/REP5</b>	Multipolar connector for X-REP, 5m; to use with WING, XM, XB series	
<b>CAB51F</b>	Cable for X-REP, 1m; to use with XJA, XJP and PRIME CX series	
<b>CAB52F</b>	Cable for X-REP, 2m; to use with XJA, XJP and PRIME CX series	
<b>CAB55F</b>	Cable for X-REP, 5m; to use with XJA, XJP and PRIME CX series	

## VARIOUS



### PRINTER

<p><b>XB07PR</b></p>	<p>Compact thermal printer designed for connection to the XB570L controller. It provides a hard copy print out of the cycles. Paper width 58mm. EASYLOCK fixing system that allows to adapt the printer to the panel thickness without further supports. Operating Voltage range: 3.5÷8V. Dimensions: 85.5x85x55mm</p>	
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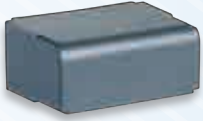


### ADAPTERS

<p><b>C-BOX</b></p>	<p>Wall adapter for C and CX format controllers, IP55, dimensions: 108x108x90mm</p>	
<p><b>C-BOX2</b></p>	<p>Wall adapter for C and CX format controllers, IP55, dimensions: 170x105x82mm</p>	
<p><b>VS-BOX</b></p>	<p>Wall adapter for VS format controllers, IP55, dimensions: 135x74x72mm</p>	
<p><b>VS-BOX2</b></p>	<p>Wall adapter for VS format controllers, IP55, dimensions: 170x105x82mm</p>	
<p><b>V-KIT/W</b></p>	<p>Wall adapter for vertical keyboards, IP55, dimensions: 100x64x43mm, white colour</p>	
<p><b>V-KIT/B</b></p>	<p>Wall adapter for vertical keyboards, IP55, dimensions: 100x64x43mm, black colour</p>	
<p><b>FA64</b></p>	<p>Frame adapter for smaller 31x64mm models to fit larger 32x74mm instrument cut outs</p>	
<p><b>FA/CX</b></p>	<p>Multifunction frame adapter from L to CX format controllers with the possibility to mount up to 2 CXLS light switches</p>	


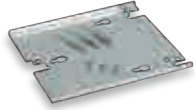
### FILTERS

<p><b>FT-IL</b></p>	<p>Inductive load filter 0,1µF/1000hm 250V</p>	
<p><b>FT-PW</b></p>	<p>Line filter</p>	



## GASKETS and PROTECTIONS

<b>MDP/CX</b>	Plastic protection for C and CX formats against dripping on terminal blocks	
<b>RG-C</b>	Front panel rubber gasket for C format, IP65 mounting	
<b>RG-L</b>	Front panel rubber gasket for L format (STANDARD), IP65 mounting	
<b>RG-LX</b>	Front panel rubber gasket for L format (INOX), IP65 mounting	
<b>RG-V</b>	Front panel rubber gasket for V format, IP65 mounting	
<b>PG-L</b>	Plastic multipurpose protection for L format, IP65	

## FIXING SYSTEMS

<b>PM-WL</b>	Patented fixing system (Design Patent: UAMI n. 001851916-0001) for a simple and easy to mount solution suitable for any metallic flat surface for WING-L INOX and BACK-PANEL controllers with polycarbonate. The kit is composed of one adhesive bracket and counter plastic bracket	
<b>PM-WLT</b>	Patented fixing system (Design Patent: UAMI n. 001851916-0001) for a simple and easy to mount solution suitable for any metallic flat surface for WING-L TOUCH controllers. The kit is composed of one adhesive bracket and counter plastic bracket	
<b>XW-WA</b>	Wall mounting bracket for XWEB500	





## TRANSFORMERS

<b>TF3</b>	The TF3 3VA model is available in the following versions: 230/12Vac, 110/12Vac and 24/12Vac. Others models with internal thermofuse (130°C) and UL, CSA, VDE approval are available	
<b>TF5</b>	The TF5 5VA model is available in the following versions: 230/12Vac, 110/12Vac and 24/12Vac	
<b>TF10</b>	The TF10 10VA model is available in the following versions: 230/12Vac, 110/12Vac and 24/12Vac	
<b>TF10D</b>	The TF10D (DIN Rail mounting) 10VA model is available in the following versions: 230/24Vac and 110/24Vac. 2 DIN Rail format	
<b>TF20D</b>	The TF20D (DIN Rail mounting) 20VA model is available in the following versions: 230/24Vac and 110/24Vac. 3 DIN Rail format	
<b>TF40D</b>	The TF40D (DIN Rail mounting) 40VA model is available in the following versions: 230/24Vac and 110/24Vac. 4 DIN Rail format	


## LIGHT SWITCHES

LS-R	Red light switch 16A/250Vac	
LS-G	Green light switch 16A/250Vac	
LS-Y	Yellow light switch 16A/250Vac	
CXLS-R	Red light switch 16A/250Vac for FA/CX	
CXLS-G	Green light switch 16A/250Vac for FA/CX	
CXLS-Y	Yellow light switch 16A/250Vac for FA/CX	
WLS-R	Red light switch 16A/250Vac for WING Series	
WLS-G	Green light switch 16A/250Vac for WING Series	
WLS-Y	Yellow light switch 16A/250Vac for WING Series	


## CABLES

CAB/KB11	1m cable to connect the keyboard and the XEV driver or the XJA-XJP-XJR modules	
CAB/USB10	USB extended cable, 1m with plastic cap for XW737K and XW777K	
CAB/HK	Adapter cable, 5 pins for Hot Key input, 0,5m for XC10CX and XC30CX	
CAB/485-TGIPG	Cable for RS485 connection with connector for TGIPG	


## CONNECTORS

XM-FC16	Female connector kit, 16 pins for XM660K and XM670K	
XM-FC21	Female connector kit, 21 pins for XM669K and XM679K	
XM-FC26	Female connector kit, 26 pins for XM668K and XM678K	

## SERIAL INTERFACE

XJ485CX	The serial interface converts the TTL output into an RS485 signal that can be used to connect the unit to the controlling and supervising system. Dimensions: 1,6x16x46mm. Multipolar connector included, 0,2m	
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## USB CONVERTER

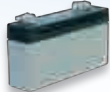

USB-ETH-CONV	USB-Ethernet adapter for iPro programmable controllers in 4 DIN Rail format	
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## CLOCK BOARD

XM-RTC	Standard clock board for XM series	
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## BATTERIES

BA6H	Battery for XJDL40D of 1.2Ah 6 hours of backup	
BA24H	Battery for XJDL40D of 4.0Ah 24 hours of back-up	

## ANTI-CONDENSING KIT

XV-ACK	Anti-condensing kit for XV110K and XV150K models	
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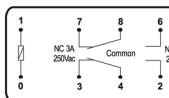
## POWER SUPPLIERS

PW-DL	Power supplier (24, 230Vac) for XDL01 module (with CAB/DL2 cable, 2m included) that works as a gateway between the XDL01 and Dixell instruments equipped with TTL or RS485 serial output HOW to ORDER: PW-DL-20000 (for 24Vac) PW-DL-50000 (for 230Vac)	
TF-TGIPG	Power supplier 24Vdc/1A for TGIPG	
PW200J	Power supplier for XJ200 modules with TTL-RS485 converter	



## USB KEY

XDL-KEY	USB key for XDL01, XW737K and XW777K	
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## RELAY

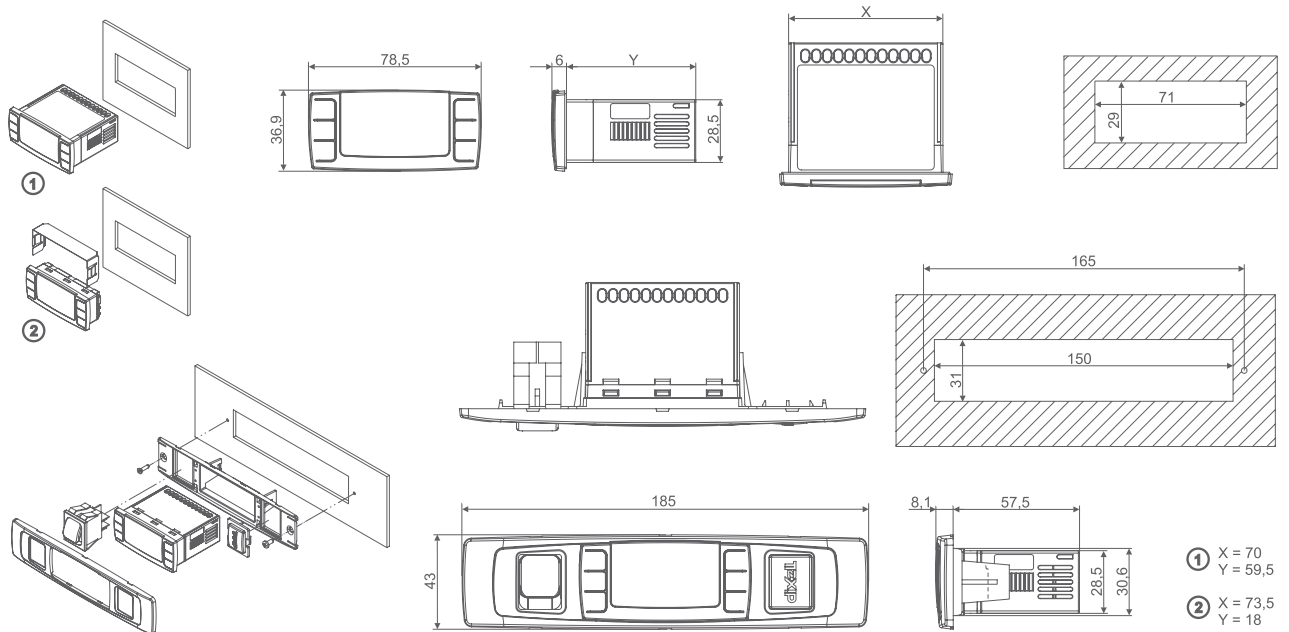
T92	Relay with a 30A current (3 HP/240Vac or 1HP/110Vac) suitable for all those applications where the load current is higher than the rating value of the relays mounted on the instruments. Contacts: 2C/O - 2N/O. Rated current: 30/3 (NO/NC). Rated/max. voltage: 250/480Vac. Rated breaking capacity: 7500VA. Nominal coil voltage: 240Vac. Nominal coil power: 1.7W/4VA. Coil contact: fast-on: 8mm. Dimensions: 30,5x52,3x34,6mm. Ambient temperature: -40÷65°C (-40÷149°F)	 
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## SIMULATORS

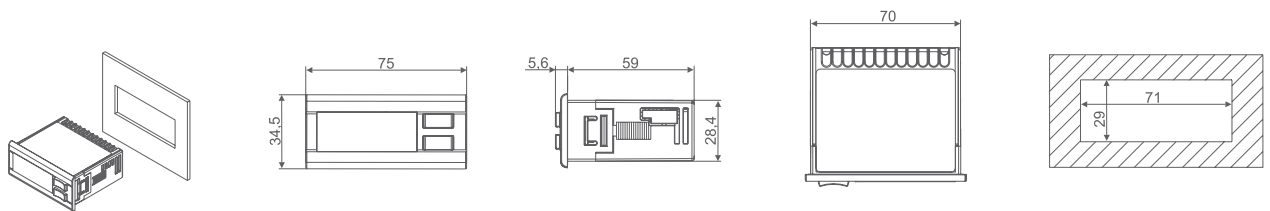
KIT SIMULATORE IPG108	Simulator of inputs and outputs is suitable to test the applications developed for the IPG108 programmable controllers. Thanks to a resistant aluminum frame, its compact dimensions 560x340x85mm, a complete series of wirings and versatile enclosure, it can be utilized in every situation. The simulator has a 230Vac power supply	
KIT SIMULATORE IPG115D	Simulator of inputs and outputs is suitable to test the applications developed for the IPG115 programmable controllers. Thanks to a resistant aluminum frame, its compact dimensions 560x340x85mm, a complete series of wirings and versatile enclosure, it can be utilized in every situation. The simulator has a 230Vac power supply	

# DIMENSIONS & CUT OUT

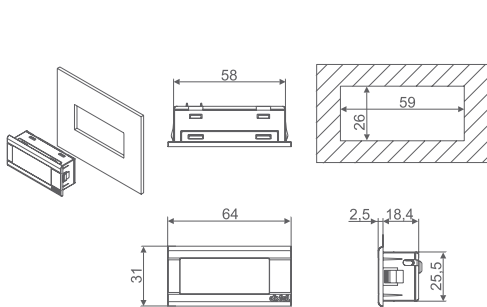
## CX, KEYBOARDS (32x74) - panel mounting



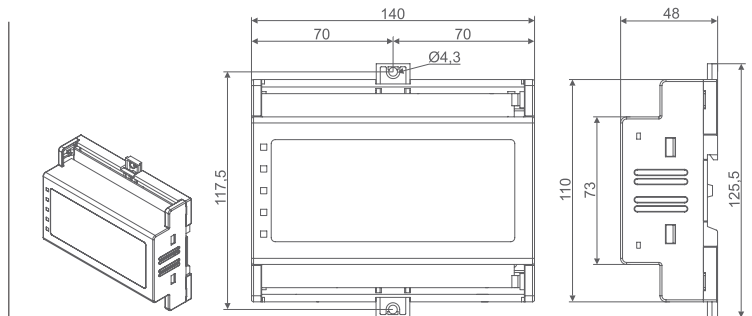
## C (32x74) - panel mounting



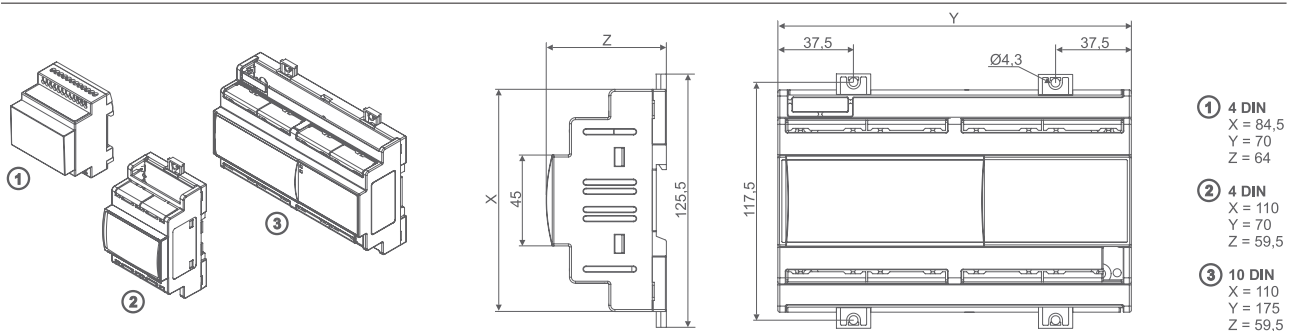
## XT11S, X-REP (31x64) - panel mounting



## 8 DIN (DIN RAIL) - wall or DIN Rail mounting



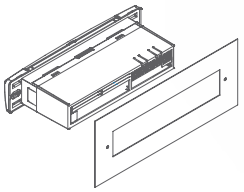
## 4, 10 DIN (DIN RAIL) - wall or DIN Rail mounting



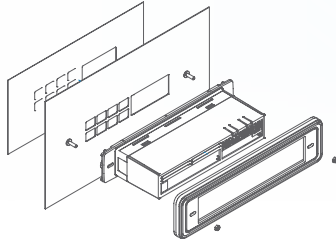
Size in mm

# L(T), LR(T), KEYBOARDS (38x185) - panel mounting

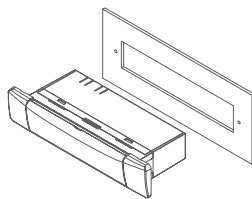
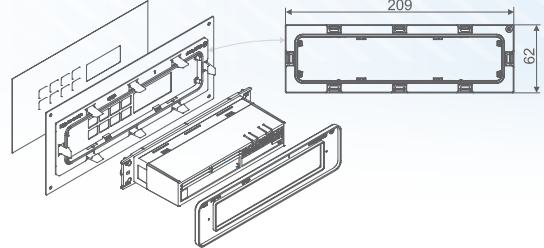
**WING STANDARD, INOX, TOUCH**  
front mounting with screws



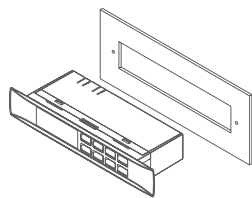
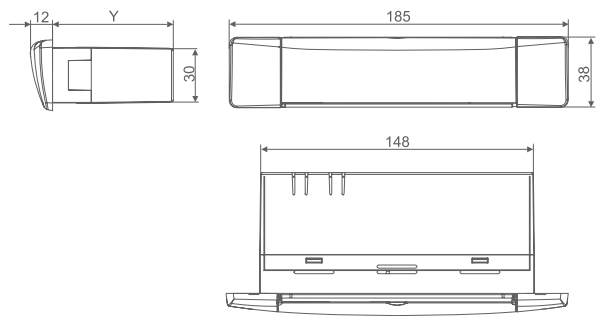
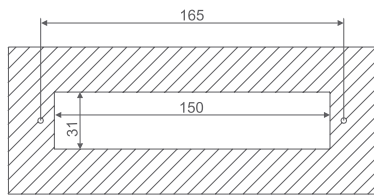
**WING INOX, POLYCARBONATE**  
back-panel mounting with captive screws and PG-L optional



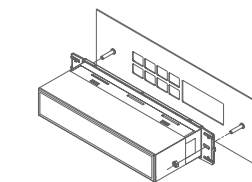
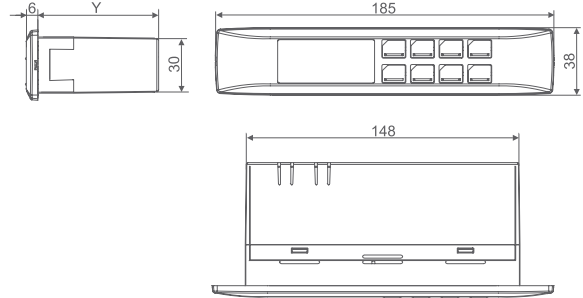
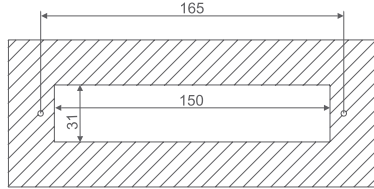
**WING INOX, TOUCH, POLYCARBONATE**  
back-panel mounting with PM-WL(T)



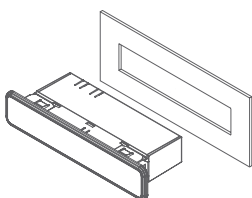
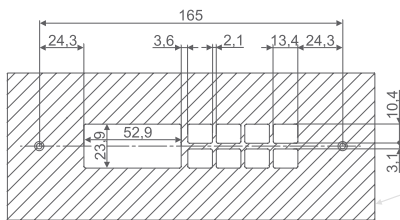
**WING STANDARD**



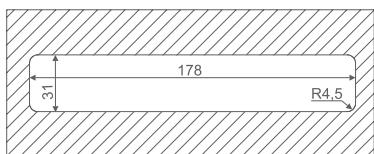
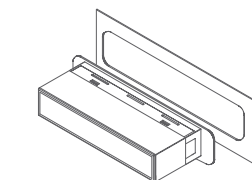
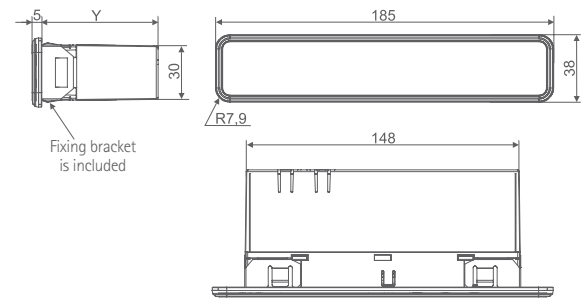
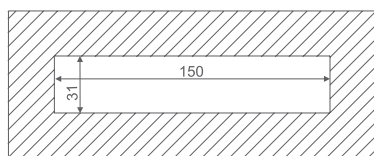
**WING INOX**



**WING INOX/POLYCARBONATE**



**WING TOUCH**



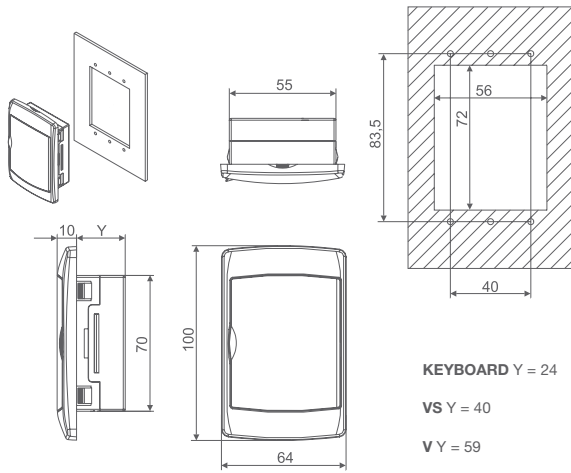
**L(T)** Y = 65

**LR(T)** Y = 40

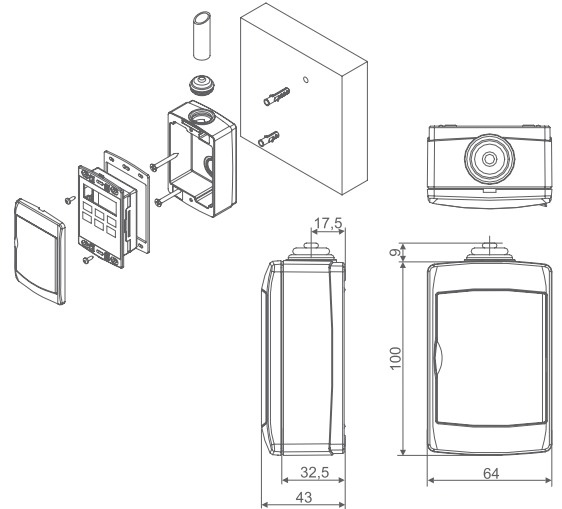
**KEYBOARD** Y = 23

Size in mm

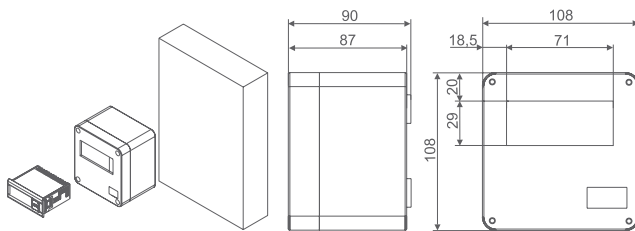
**V, VS, KEYBOARDS (100x64) - panel mounting**



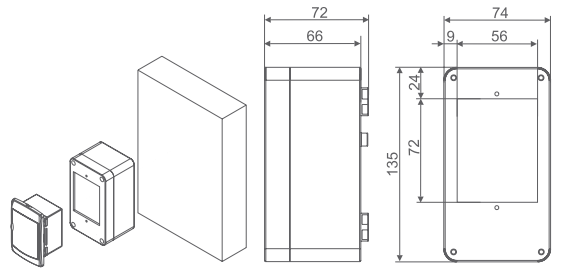
**V-KIT (100x64) - wall mounting**



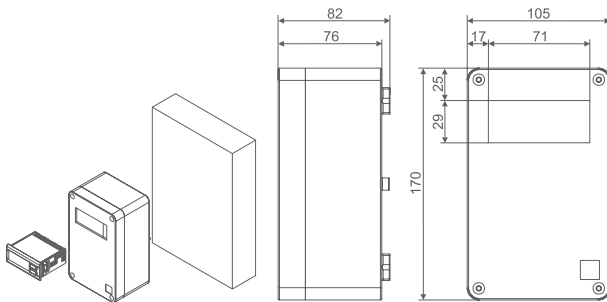
**C-BOX (108x108) - wall mounting**



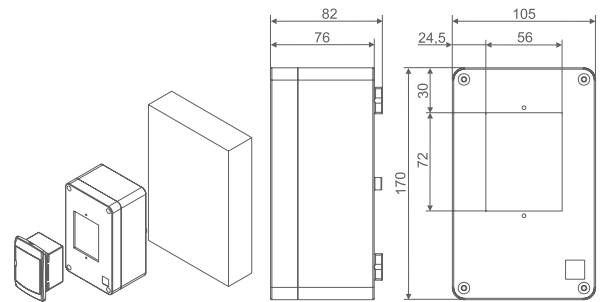
**VS-BOX (135x74) - wall mounting**



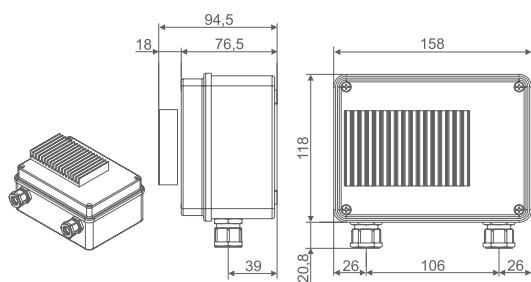
**C-BOX2 (170x105) - wall mounting**



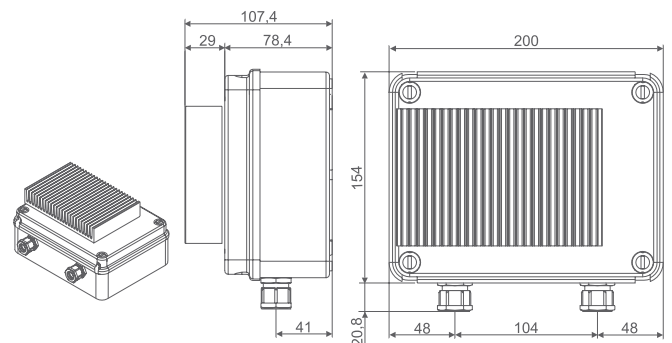
**VS-BOX2 (170x105) - wall mounting**



**XV110K (139x158)**

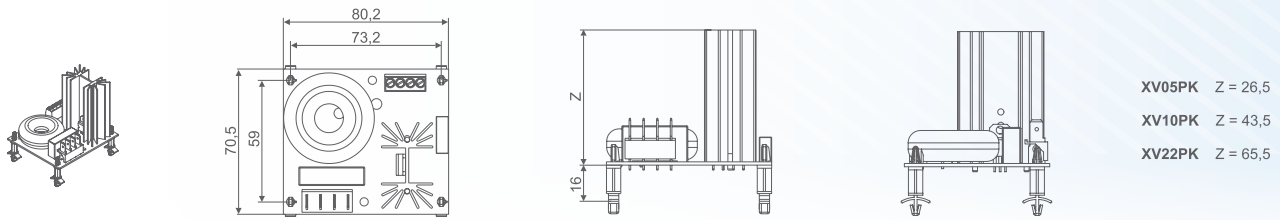


**XV150K (175x200)**

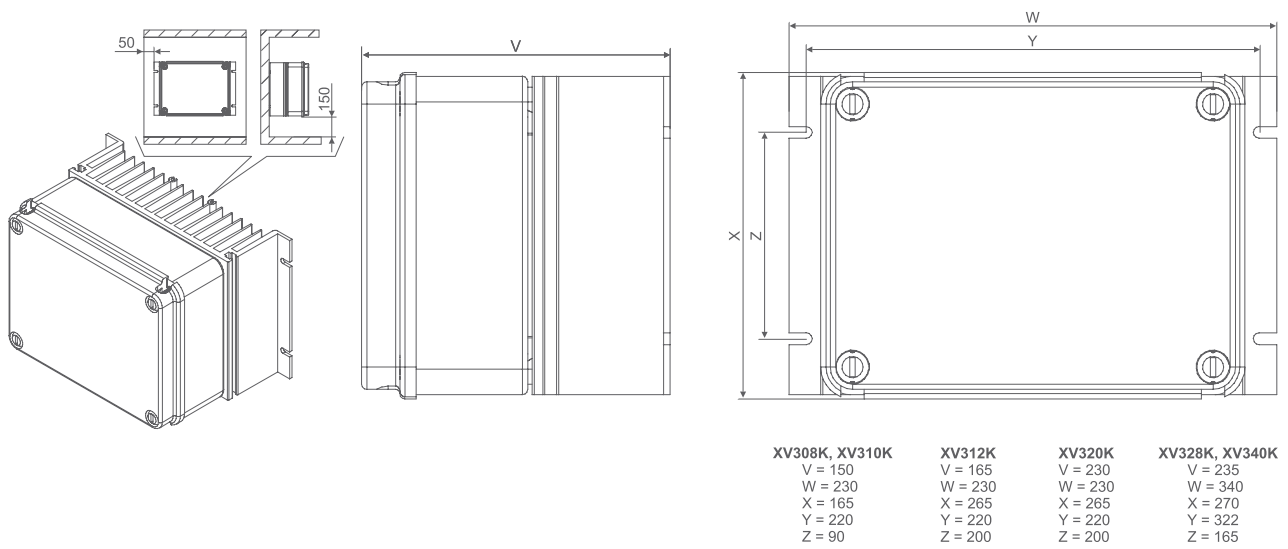


Size in mm

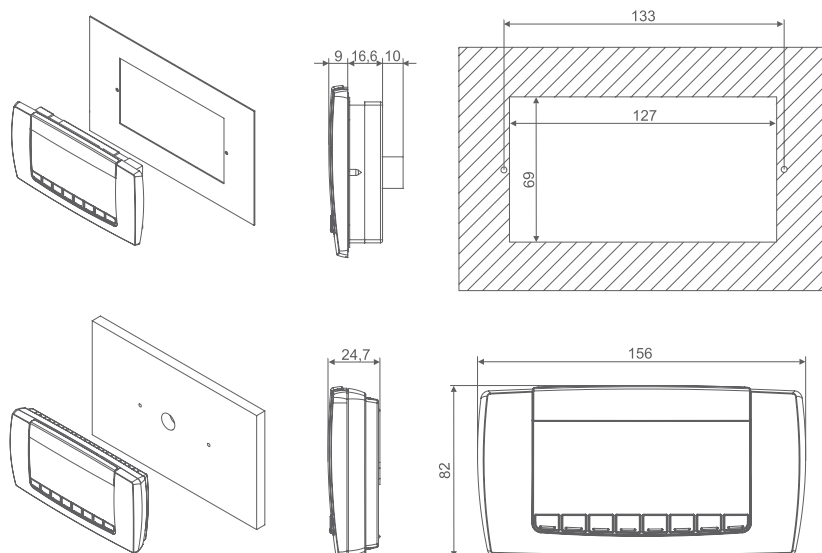
## PK (80x70) - panel mounting



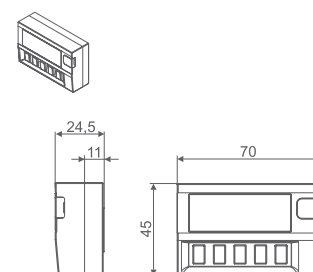
## XV300K - wall mounting



## VISOGRAPH (82x156) - wall or panel mounting

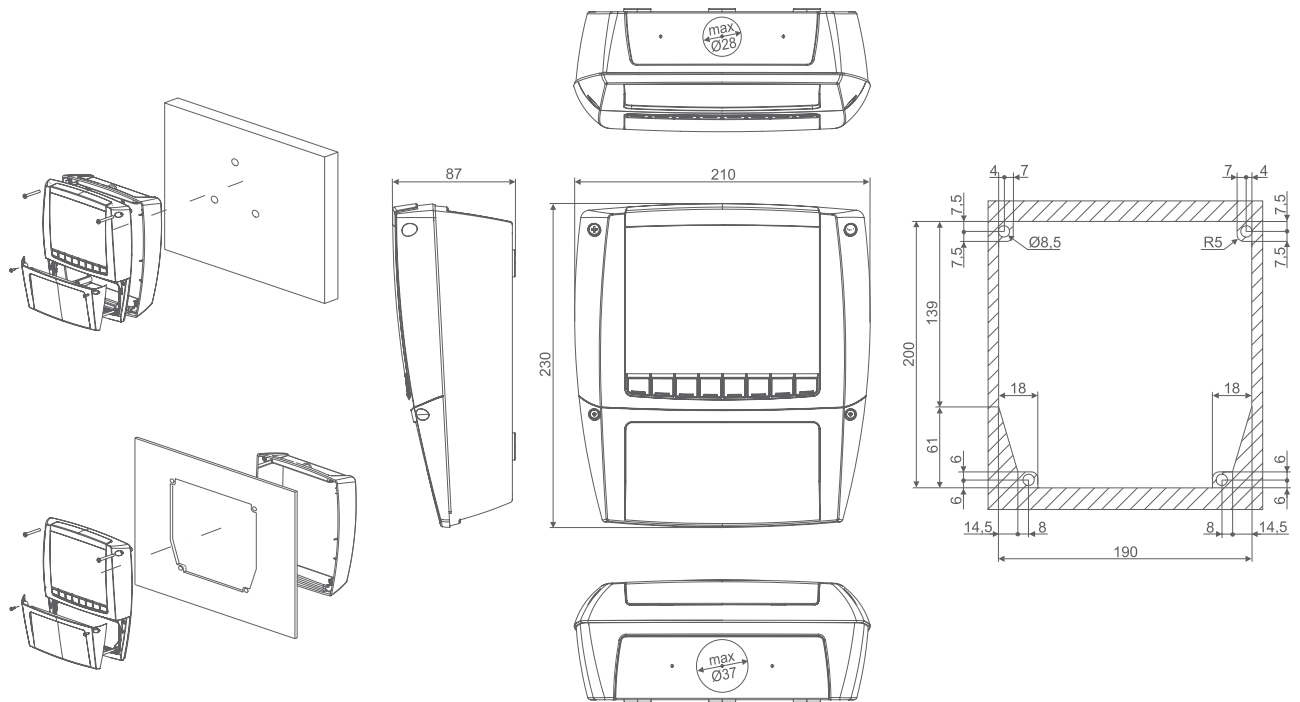


## XDL (45x70) - wall mounting

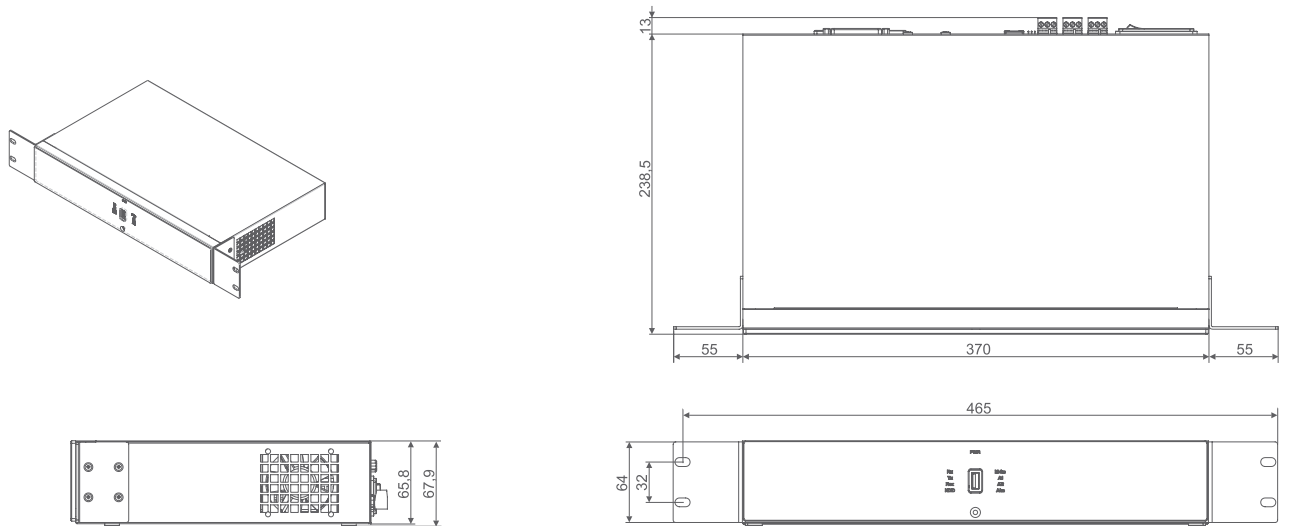


Size in mm

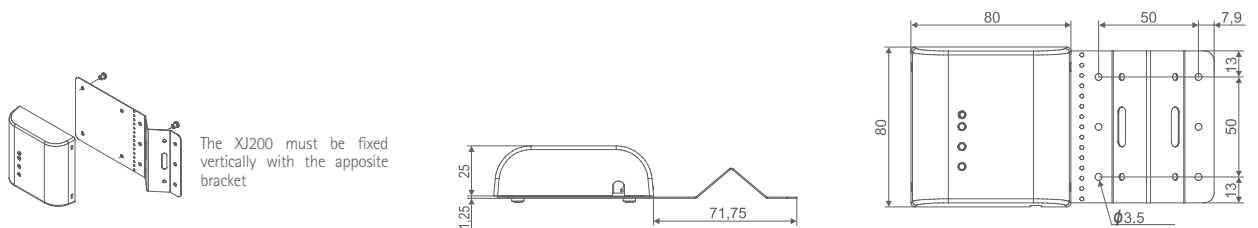
### XLR, XLH, XWEB500 (230x210) - wall or panel mounting



### XWEB3000, XWEB5000 (370x238) - 19" RACK mounting

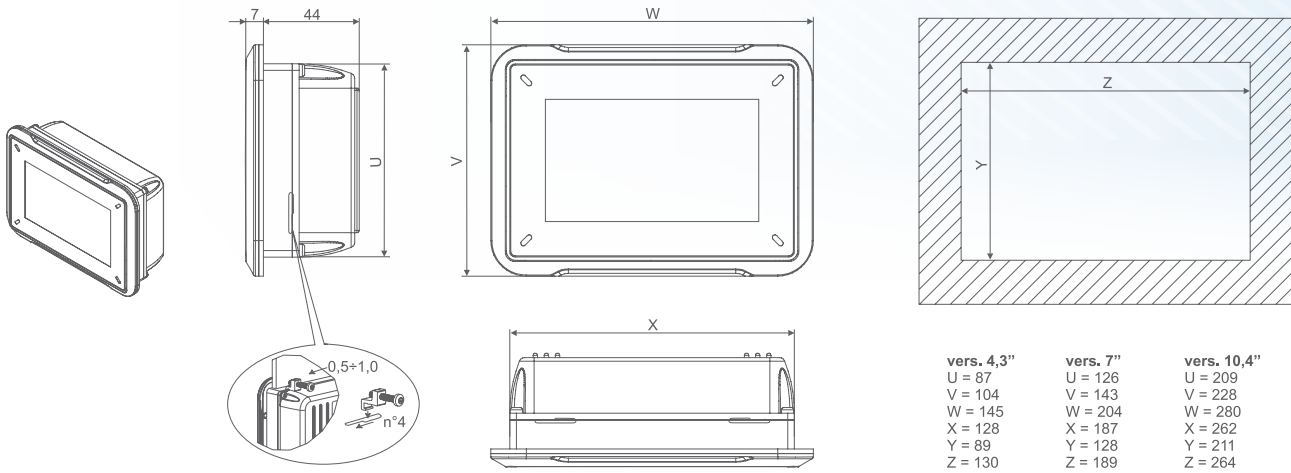


### XJ200 (80x80) - wall or pipemount or shelves mounting



Size in mm

## TGIPG – panel mounting



Size in mm

## GENERAL TECHNICAL FEATURES

The following technical features are ordinary for the products present in this catalogue, other main features can be found on the preliminary section of the series.

### Housing

self extinguishing ABS

### Front protection (with gasket, if available)

S format ➔ IP65  
 C, CX formats and CX keyboards ➔ IP65  
 L(T), LR(T) formats and WING horizontal keyboards ➔ IP65  
 V, VS formats and WING vertical keyboards ➔ IP65  
 XLR, XLH formats ➔ IP65  
 4, 8, 10 DIN formats ➔ IP20  
 VG format ➔ IP65  
 XDL ➔ IP30  
 TGIPG ➔ IP65  
 XJ200 ➔ IP30

### Accuracy

better than 1% of F.S.

### Data storage

EEPROM memory

### Operating temperature

0÷60°C (32÷140°F)

### Storage temperature

-30÷85°C (22÷185°F)

### Relative humidity

20÷85%

### Resolution

0,1°C or 1°F

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