

TEMPERATURE INDICATOR





Features

- Displays actual temperature and measuring unit.
- Very large 26mm (1") digits.
- Piegraph indication: ten segments.
- Number of digits for temperature: $5^{1/2}$.
- Selectable on-screen engineering units: °C-°F-K.
- Operational temperature -40°C up to +80°C (-40°F up to 178°F).
- Very compact design for panel mount, wall mount or field mount applications.
- Auto backup of all settings.
- Rugged aluminum field mount enclosure IP67/NEMA4X.
- Intrinsically Safe ATEX, IECEx and CSA approval for gas and dust applications.
- Explosion/flame proof 🕢 II 2 GD EEx d IIB T5.
- LED backlight option.
- Loop or battery powered, 8 24V AC/DC or 115 230V AC power supply.
- Sensor supply 8.2 / 12 / 24V DC.

Signal input

Temperature

- PT100 2, 3 or 4 wire.
- (0)4 20mA.
- 0 10V DC.

Applications

• Applications where a basic temperature measurement display is required without temperature monitoring. More sophisticated models: F043, F140 and F143.

General information

Introduction

The F040 is a straight forward temperature indicator, displaying the actual value with its measuring unit. The display is typically used as a battery powered indicator for PT100 temperature sensors but also often used with (0)4 - 20mA input signals. The measuring unit to be displayed is simply selected through an alfa-numerical configuration menu. No adhesive labels have to be put on the outside of the enclosure: a weather proof and user friendly solution!

The configuration of the Span, off-set and number of decimals is done through software functions, without any sensitive dip-switches or trimmers. A wide selection of options further enhance this models capabilities, including Intrinsic Safety for hazardous area applications.

Display

The display has very large 26mm (1") digits which displays the temperature and measuring unit. As the F040 has been designed for field mounted applications, a smart display update function has been incorporated: related to the lower ambient temperature, the update frequency of the LCD is tuned automatically to achieve a readable display even at -40° C / -40° F.

Backlight

For those applications where readability during day and night is an issue, a bi-color backlight is available. The background color green or amber and the intensity can be adjusted from the keyboard. The display is a transflective type, which means that a high contrast reading is guaranteed in full sunlight as well as during the night. This backlight option is also available Intrinsically Safe.

Configuration

All configuration settings are accessed via a simple operator menu which can be pass-code protected. Each setting is clearly indicated with an alphanumerical description, therefore avoiding confusing abbreviations. All settings are safely stored in EEPROM memory in the event of sudden power failure.

Signal input

The F040 does accept (0)4 - 20mA and 0 - 10V input signals from any type of temperature measurement device. Also a two, three or four wire PT100 sensor can be used. Thermocouple inputs are in preparation.

Power supply

Several power supply options are available to power the F040 and sensor.

A battery powered version with a long life lithium battery which will last up to five years. A 4 - 20mA input loop powered version is available as well.

A real sensor supply is offered with the 24V AC/DC or 115 - 230V AC power supply option.

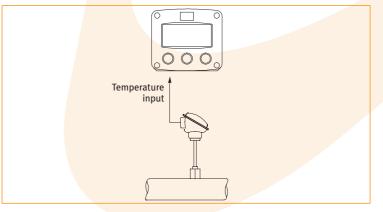
Hazardous area

For hazardous area applications, this model has been ATEX, IECEx and CSA certified Intrinsically Safe for gas and dust applications, with an allowed operational temperature of -40°C to +70°C (-40°F to +158°F). FM certification is expected to be available in 2009. A flame proof enclosure with ATEX certification offers the rating **©**II 2 GD EEx d IIB T5.

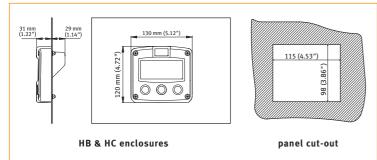
Enclosures

Various types of enclosures can be selected, all ATEX, IECEx and CSA approved. As standard the F040 is supplied in an GRP panel mount enclosure, which can be converted to an IP67 / NEMA 4X GRP field mount enclosure by the addition of a back case. Most popular is our rugged aluminum field mount enclosure with IP67 / NEMA 4X rating. Both European or U.S. cable gland entry threads are available.

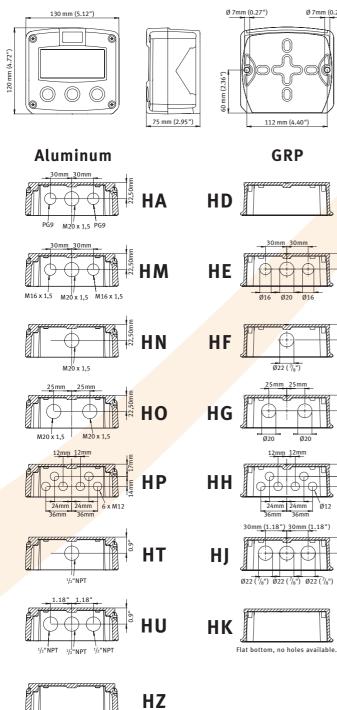
Overview application Fo40



Dimensions enclosures Aluminum & GRP panel mount enclosure



Aluminum & GRP field / wall mount enclosures





Ø 7mm (0.27")



Ø16

25mn

Ø20

012

(...6.0)

22.50mm

12mm

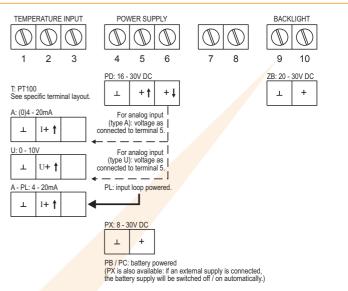
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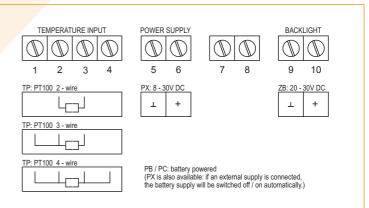
6.0

0mm

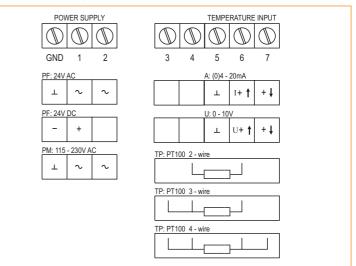
Terminal connections analog input Power supply PB/PC - PD - PL - PX



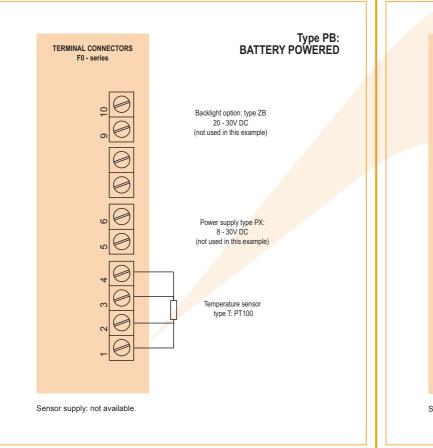
Terminal connections PT100 input Power supply PB/PC - PX



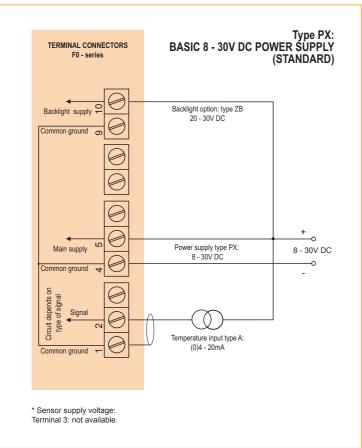
Terminal connections analog / PT100 input **Power supply PF - PM**



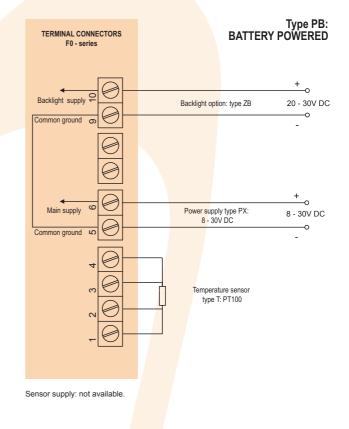
Typical wiring diagram Fo4o-T-PB



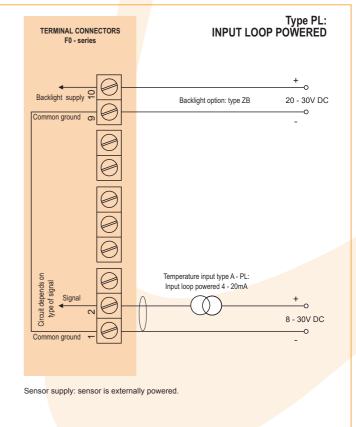
Typical wiring diagram Fo4o-A-PX-ZB



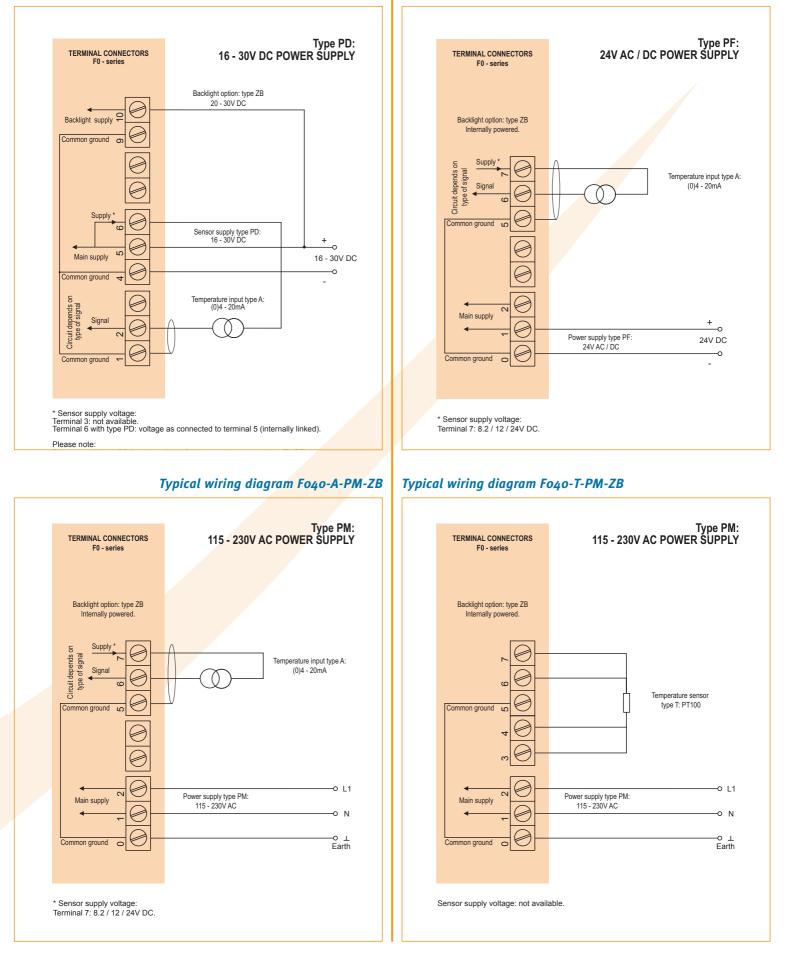
Typical wiring diagram Fo4o-T-PX-ZB



Typical wiring diagram F040-A-PL-ZB







Typical wiring diagram Fo4o-A-PF-ZB

Typical wiring diagram Fo4o-A-PD-ZB

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Hazardous area applications

The F040-XI has been certified according ATEX and IECEx by KEMA and according CSA c-us for use in Intrinsically Safe applications with an ambient temperature of -40° C to $+70^{\circ}$ C (-40° F to $+158^{\circ}$ F).

• The ATEX markings for gas and dust applications are:

Ex II 1 G Ex ia IIC T4 II 1 D Ex iaD 20 IP 65/67 T 100 °C.

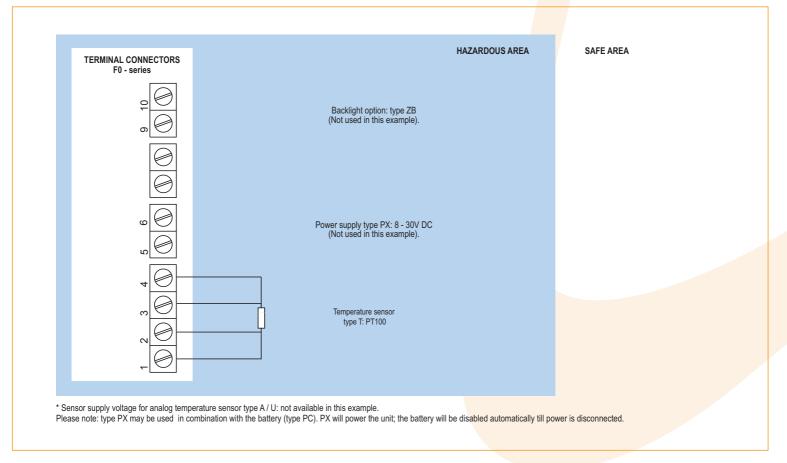
- The IECEx markings for gas and dust applications are: **Ga Ex ia IIC T4** and **Ex iaD 20 IP 65/67 T100** °C.
- The CSA c-us markings are: Class I/II/III, Division 1, Groups A, B, C, D, E, F, G, Temperature class T4 and Class I, Zone 0, AEx ia IIC T4.
- FM approval is expected to become available in 2009.

It is allowed to connect up to three I.S. power supplies to power the unit, sensor and backlight. The F040-PD-XI offers the input voltage to power an analog sensor. An ATEX approved flame proof enclosure with rating 🕢 II 2 GD EEx d IIB T5 is available as well. Please contact your supplier for further details.

Certificate of conformity KEMA 05ATEX1168 X • IECEx KEM 08.0006X • CSA.08.2059461 X

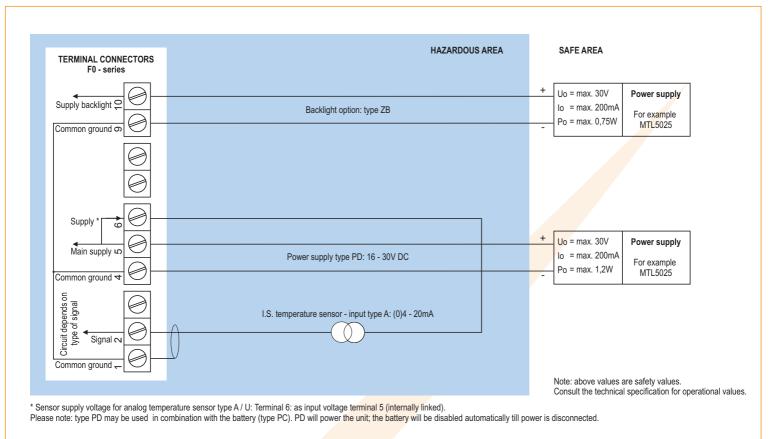


Configuration example IIA - IIB and IIC - Fo4o-T-PC-XI - Battery powered unit





Configuration example IIA - IIB and IIC - F040-A-PD-XI-ZB - Power supply 16 - 30V DC



Configuration example IIA - IIB and IIC - Fo4o-A-PL-XI-ZB - Input loop powered

TERMINAL CONNECTORS F0 - series	HAZARDOUS AREA	SAFE AREA	
Supply backlight 2	Backlight option: type ZB	+ Uo = max. 30V Io = max. 200mA Po = max. 0,75W	Power supply For example MTL5025
Circuit depends on type of signal	I.S. temperature sensor - input type A - PL: 4 - 20mA input loop powered	+ Uo = max. 30V	Power supply
Signal ∼ Common ground ←		Io = max. 93mA Po = max. 0,92W Note: above values a	For example MTL5025 are safety values.

Sensor supply is not available: unit is input loop powered (type PL). Please note: type PL may be used in combination with the battery (type PC). PL will power the unit; the battery will be disabled automatically till power is disconnected.

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Technical specification

General Display Type High intensity reflective numeric and alphanumeric LCD, UV-resistant. Dimensions 90 x 40mm (3.5" x 1.6"). Digits $5^{1/2}$ very large 26mm (1") digits. Various symbols and measuring units. Ten segments - related to the input signal. Piegraph Refresh rate User definable: 8 times/sec. / 1 / 3 / 15 / 30 secs / off. Transflective LCD with bi-color LED-backlight; **Option ZB** green / amber. Intensitiy and color selected trough the keyboard. Good readings in full sunlight and darkness. Also available Intrinsically Safe.

Operating temperature

Standard unit -40°C to +80°C (-40°F to +178°F). Intrinsically Safe -40°C to +70°C (-40°F to +158°F).

Power requirements Type PB Long life Lithium battery - life-time depends upon settings and configuration - up to 5 years. Type PC Intrinsically Safe long life lithium battery - life-time depends upon settings and configuration - up to 5 years. Type PD 16 - 30V DC. Power consumption max. 1 Watt. Type PF 24V AC / DC ± 10%. Power consumption max. 15 Watt. Type PL Input loop powered from sensor signal 4 - 20mA (type A). Type PM 115 - 230V AC ± 10%. Power consumption max. 15 Watt. Type PX 8 - 30V DC. Power consumption max. 0.3 Watt. 20 - 30V DC. Power consumption max. 1 Watt. Type ZB With type PF / PM: internally powered. Note PB/PF/PM Not available Intrinsically Safe. Note PF/PM The total consumption of the sensor and backlight type ZB may not exceed 400mA @ 24V DC. Note For Intrinsically Safe applications, consult the safety values in the certificate.

Sensor excitation

Type PB/PC/PX	Not available, just suitable for PT100 sensors.
Type PD	The sensor supply voltage will be according to power
	supply voltage (as connected to terminal 5).
Type PF / PM	8.2 / 12 and 24V DC - max. 400mA @ 24V DC.
Note	There is no sensor supply available for PT100 sensors.

Terminal	connections	
Туре	Removable plug-in terminal strip.	
	Wire max. 1.5mm ² and 2.5mm ² .	
Data protection		

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Туре	EEPROM backup of all settings. Data retention at
	least 10 years.
Pass-code	Configuration settings can be pass-code protected.

General	
Window	Polycarbonate window.
Sealing	Silicone.
Control keys	Three industrial micro-switch keys. UV-resistant
	silicone keypad.
Aluminum wa	ll / field mount enclosures
General	Die-cast aluminum wall/field mount enclosure IP67 /
Contract	NEMA 4X with 2-component UV-resistant coating.
Dimensions	130 x 120 x 75mm (5.12" x 4.72" x 2.95") - W x H x D.
Weight	1100 gr.
Type HA	Cable entry: 2 x PG9 and 1 x M20.
Type HM	Cable entry: 2 x M16 and 1 x M20.
Type HN	Cable entry: 1 x M20.
Туре НО	Cable entry: 2 x M20.
Type HP	Cable entry: 6 x M12.
Type HT	Cable entry: 1 x $1/2^{"}$ NPT.
Type HU	Cable entry: $3 \times 1/2^{\circ}$ NPT.
Type HZ	Cable entry: no holes.
туренz	Cable entry: no notes.
GRP wall / fie	eld mount enclosures
General	GRP wall/field mount enclosure IP67 / NEMA 4X,
General	UV-resistant and flame retardant.
Dimensions	130 X 120 X 75mm (5.12" X 4.72" X 2.95") - W X H X D.
Weight	600 gr.
Type HD	Cable entry: no holes.
Type HE	Cable entry: 1 x Ø 16mm and 1 x Ø 20mm.
Type HF Type HG	Cable entry: 1 x Ø 22mm ($7/_8$ ").Cable entry: 2 x Ø 20mm.
Type HH	Cable entry: 6 x Ø 12mm.
Type HJ	Cable entry: $3 \times \emptyset 22mm (7/8")$. Flat bottom, cable entry: no holes.
	Flat pollom, caple entry: no notes.
Туре НК	······································
Panel mount	enclosures
Panel mount Dimensions	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D.
Panel mount Dimensions Panel cut-out	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H.
Panel mount Dimensions	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 /
Panel mount Dimensions Panel cut-out Type HB	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4.
Panel mount of Dimensions Panel cut-out Type HB Weight	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr.
Panel mount Dimensions Panel cut-out Type HB	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4,
Panel mount of Dimensions Panel cut-out Type HB Weight Type HC	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr.
Panel mount of Dimensions Panel cut-out Type HB Weight	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4,
Panel mount Dimensions Panel cut-out Type HB Weight Type HC Weight	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4, UV-resistant and flame retardant. 450 gr.
Panel mount of Dimensions Panel cut-out Type HB Weight Type HC Weight ABS wall / fie	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4, UV-resistant and flame retardant. 450 gr. eld mount enclosures
Panel mount Dimensions Panel cut-out Type HB Weight Type HC Weight	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4, UV-resistant and flame retardant. 450 gr. eld mount enclosures Silicone free ABS wall/field mount enclosure IP65
Panel mount of Dimensions Panel cut-out Type HB Weight Type HC Weight ABS wall / fie	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4, UV-resistant and flame retardant. 450 gr. eld mount enclosures Silicone free ABS wall/field mount enclosure IP65 with EPDM and PE sealings. UV-resisitant polyester
Panel mount of Dimensions Panel cut-out Type HB Weight Type HC Weight ABS wall / fie	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4, UV-resistant and flame retardant. 450 gr. eld mount enclosures Silicone free ABS wall/field mount enclosure IP65 with EPDM and PE sealings. UV-resisitant polyester keypad (old HD enclosure).
Panel mount of Dimensions Panel cut-out Type HB Weight Type HC Weight ABS wall / fie General Dimensions	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4, UV-resistant and flame retardant. 450 gr. eld mount enclosures Silicone free ABS wall/field mount enclosure IP65 with EPDM and PE sealings. UV-resisitant polyester
Panel mount of Dimensions Panel cut-out Type HB Weight Type HC Weight ABS wall / fie General	enclosures 130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D. 115 x 98mm (4.53" x 3.86") L x H. Die-cast aluminum panel mount enclosure IP65 / NEMA 4. 600 gr. GRP panel mount enclosure IP65 / NEMA 4, UV-resistant and flame retardant. 450 gr. eld mount enclosures Silicone free ABS wall/field mount enclosure IP65 with EPDM and PE sealings. UV-resisitant polyester keypad (old HD enclosure).

Hazardous area

Intrinsically S	Safe
ATEX	C II 1 G Ex ia IIC T4.
certification	Ex II 1 G Ex ia IIC T4. II 1 D Ex iaD 20 IP 65 / 67 T 100 °C.
IECEx	IEC Ga Ex ia IIC T4. Ex iaD 20 IP 65 / 67 T 100 °C.
certification	Ex iaD 20 IP 65 / 67 T 100 °C.
CSA c-us	Intrinsically Safe for Class I/II/III, Div. 1,
certification	See Groups A, B, C, D, E, F, G, Temp. class T4
	Groups A, B, C, D, E, F, G, Temp. class T4 us and Class I, Zone o, AEx ia IIC T4.
Ambient	-40°C to +70°C / -40° to +158°F.

Explosion proof

ATEX certification	🚱 II 2 GD EEx d IIB T5.
Type XF	Dimensions of enclosure: 300 x 250 x 200mm
	(11.8" x 9.9" x 7.9") L x H x D.
Weight	Appr. 15kg.

Environment

Electromagnetic Compliant ref: EN 61326 (1997), EN 61010-1 (1993). compatibility

Signal inputs Temperature Accuracy Resolution: 16 bit. Error < 0.01mA / $\pm 0.05\%$ FS. Low level cut-off programmable. Type A (o)4 - 20mA. Analog input signal can be scaled to any desired range within o - 20mA. Span 0.00001 - 199,999 with variable decimal position. Offset -99,999 / +199,999 units. Voltage drop Type A: max. 2V DC @ 20mA. Voltage drop Type A - PL (loop powered): max. 2.6V DC @ 20mA.

	All a state of the second
Update time	Four times per second.
Туре Т	2, 3 or 4 wire PT100.
Offset	-999.9 / +999.9 units.
Update time	Once per second.
Range	-100°C to +200°C (-148°F to 392°F).
	Accuracy 0.1°C (0.2°F).
Option ZV	Range: -200°C to +800°C (-328°F to 1472°F).
	Accuracy 0.5°C (0.9°F).
Type U	o - 10V DC. Analog input signal can be scaled to
	any desired range within o - 10V DC.
Span	0.00001 - 199,999 with variable decimal position.
Offset	-99,999 / +199,999 units.
Load impedance	3kΩ.
Update time	Four times per second.
Note	For signal A and U: power supply to temperature
	sensor is required; e.g. PD.

Operational

Operator functions		
Displayed	 Actual temperature. 	
functions	 Measuring unit. 	
Temperature		
Digite	=1/ digits	

Digits	$5^{1/2}$ digits.
Units	°C, °F or K.
Decimals	Туре Т: 1.
	Type A / U: o - 1 - 2 - 3 - 4 or 5.

AccessoriesMounting accessoriesACFo2Stainless steel wall mounting kit.ACFo5Stainless steel pipe mounting kit

ACF05	Stainless steel pipe mounting kit (worm gear clamps
	not included).
ACFo6	Two stainless steel worm gear clamps Ø 44 - 56mm.
ACF07	Two stainless steel worm gear clamps Ø 58 - 75mm.
ACFo8	Two stainless steel worm gear clamps Ø 77 - 95mm.
ACF09	Two stainless steel worm gear clamps Ø 106 - 138mm.
ACF10	Customized Grevopal tagplates for ACFo2 and ACFo5,
	including stainless steel screws.
	Dimension: 95mm x 12.5mm (3.75" x 0.50").

Cable gland ac	cessories
ACF20	For HA enclosure, includes O-rings.
ACF25	For HE enclosure, includes locknuts and O-rings.
ACF26	For HF enclosure, includes locknuts and O-rings.
ACF27	For HG enclosure, includes locknuts and O-rings.
ACF28	For HH enclosure, includes locknuts and O-rings.
ACF29	For HJ enclosure, includes locknuts and O-rings.
ACF32	For HM enclosure, includes O-rings.
ACF33	For HN enclosure, includes O-rings.
ACF34	For HO enclosure, includes O-rings.
ACF35	For HP enclosure, includes O-rings.
ACF39	For HT enclosure, includes O-rings.
ACF40	For HU enclosure, includes O-rings.
Blind plug acc	essories
ACF50	For HA enclosure, includes O-rings.
ACF50 ACF55	For HA enclosure, includes O-rings. For HE enclosure, includes locknuts and O-rings.
	-
ACF55	For HE enclosure, includes locknuts and O-rings.
ACF55 ACF56	For HE enclosure, includes locknuts and O-rings. For HF enclosure, includes locknuts and O-rings.
ACF55 ACF56 ACF57	For HE enclosure, includes locknuts and O-rings. For HF enclosure, includes locknuts and O-rings. For HG enclosure, includes locknuts and O-rings.
ACF55 ACF56 ACF57 ACF58	For HE enclosure, includes locknuts and O-rings. For HF enclosure, includes locknuts and O-rings. For HG enclosure, includes locknuts and O-rings. For HH enclosure, includes locknuts and O-rings.
ACF55 ACF56 ACF57 ACF58 ACF59	For HE enclosure, includes locknuts and O-rings. For HF enclosure, includes locknuts and O-rings. For HG enclosure, includes locknuts and O-rings. For HH enclosure, includes locknuts and O-rings. For HJ enclosure, includes locknuts and O-rings.
ACF55 ACF56 ACF57 ACF58 ACF59 ACF62	For HE enclosure, includes locknuts and O-rings. For HF enclosure, includes locknuts and O-rings. For HG enclosure, includes locknuts and O-rings. For HH enclosure, includes locknuts and O-rings. For HJ enclosure, includes locknuts and O-rings. For HM enclosure, includes O-rings.
ACF55 ACF56 ACF57 ACF58 ACF59 ACF62 ACF63	For HE enclosure, includes locknuts and O-rings. For HF enclosure, includes locknuts and O-rings. For HG enclosure, includes locknuts and O-rings. For HH enclosure, includes locknuts and O-rings. For HJ enclosure, includes locknuts and O-rings. For HM enclosure, includes O-rings. For HN enclosure, includes O-rings.
ACF55 ACF56 ACF57 ACF58 ACF59 ACF62 ACF63 ACF64	For HE enclosure, includes locknuts and O-rings. For HF enclosure, includes locknuts and O-rings. For HG enclosure, includes locknuts and O-rings. For HH enclosure, includes locknuts and O-rings. For HJ enclosure, includes locknuts and O-rings. For HM enclosure, includes O-rings. For HN enclosure, includes O-rings. For HO enclosure, includes O-rings.

ACF70 For HU enclosure, includes O-rings.

Intrinsically Safe isolators accessories

ACG02	MTL5025 - One channel power supply from safe area
	to hazardous area (e.g. to power the unit with PD or
	to power a switching or analog device in hazardous
	area).
ACGo3	MTL5042 - One channel 4 - 20mA repeater from
	hazardous area to safe area, including power supply.

Display example - 90 x 40mm (3.5" x 1.6")



F040

Ordering information

ordering: information:F040-+H+P-X-ZTemperature sensor input signalA 0 (0)4 - zonA input.U 0 - 10 VD Cinput.Panel mount enclosures - IP65 / NEMA4HBWAuminum enclosure.(C)GRP field / wall mount enclosures - IP67 / NEMA4XHDCable entry: no holes.GRP field / wall mount enclosures - IP67 / NEMA4XHDCable entry: 1x 0 zamm (?k*).HGCable entry: 2x N20.HNCable entry: 2x PG9 + 1x M20.HNCable entry: 2x N20.HNCable entry: 2x N20.HN	Standa	d configuration: Fo4o-A-HC-PX-XX-ZX.						
A \odot $(0)_{4}$ - 20mA input.T \odot PTroo input.Panel mount enclosures - IP65 / NEMA4HB \odot Aluminum enclosure.C \odot GRP enclosure.GRP field / wall mount enclosures - IP67 / NEMA4XHD \odot Cable entry: a x Ø aform & 1 x Ø aomm.HF \odot Cable entry: a x Ø aform & 1 x Ø aomm.HF \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø aform & 1 x Ø aomm.HH \odot Cable entry: a x Ø afor A x Ø aomm.HH \odot Cable entry: a x Ø afor A x Ø aom.HN \bigcirc Cable entry: a x Ø afor A x Ø aom.HN \bigcirc Cable entry: a x Ø afor A x Ø aom.HN \bigcirc Cable entry: a x Ø afor A x Ø aom.HN \bigcirc Cable entry: a x Ø afor A x Ø aom.HN \bigcirc Cable entry: a x Ø afor A x Ø aom.HN \bigcirc			F040		-H_	-P _	-X _	-Z _
T \odot PTioo input. U \odot o - toV DC input. Panel mount enclosures - IP65 / NEMA4 HB \odot Aluminum enclosures - IP65 / NEMA4 HB \odot Aluminum enclosures - IP67 / NEMA4X HD \odot GRP enclosure. GRP field / wall mount enclosures - IP67 / NEMA4X HD \odot Cable entry: $2 \times \emptyset$ aronm ($/ \emptyset^{\circ}$). HF \odot Cable entry: $2 \times \emptyset$ aronm ($/ \emptyset^{\circ}$). HG \odot Cable entry: $2 \times \emptyset$ aronm ($/ \emptyset^{\circ}$). HG \odot Cable entry: $2 \times \emptyset$ aronm ($/ \emptyset^{\circ}$). HG \odot Cable entry: $2 \times \emptyset$ aronm ($/ \emptyset^{\circ}$). HG \odot Cable entry: $2 \times \emptyset$ aronm ($/ \theta^{\circ}$). HK \odot Cable entry: $2 \times \emptyset$ aronm ($/ \theta^{\circ}$). HK \odot Cable entry: $2 \times \emptyset$ aronm to holes. Aluminum field / wall mount enclosures - IP67 / NEMA4X HA \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HM \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HM \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HM \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HM \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HM \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HM \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HM \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HP \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HP \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HP \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HP \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HP \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HP \odot Cable entry: $2 \times Ni6 + 1 \times N20$. HP \odot Cable entry: $2 \times N^{\circ} (N + 1 \times N^{\circ} N + 1 \times N^{\circ} N^{\circ} N + 1 \times N^{\circ} N^{\circ} N + 1 \times N^{\circ} N^{$	Temper	ature sensor input signal						
U © o - 10V DC input. Panel mount enclosures - IP65 / NEMA4 HB © Aluminum enclosures. HC @ GRP enclosure. GRP field / wall mount enclosures - IP67 / NEMA4X HD © Cable entry: no holes. HE © Cable entry: 1x Ø 2mm (/#'). HG © Cable entry: 2 x Ø 16mm & 1 x Ø 2mm. HF © Cable entry: 3 x Ø 2mm. HJ © Cable entry: 2 x M20. HM © Cable entry: 2 x M20. HM © Cable entry: 2 x M20. HM © Cable entry: 2 x M20. HD © Cable entry: 3 x M20. HD © Cable entry: 9 x M20. HT © Input loop powered . HT © Input loop powered from sensor signal 4 - 20mA (type A). HT → 135 - 330V AC + sensor supply. PL © Input loop powered from sensor signal 4 - 20mA (type A). HT → 15 - 330V AC + sensor supply. HT $= 100000000000000000000000000000000000$	A ©	(o)4 - 20mA input.						
Panel mount enclosures - IP65 / NEMA4 HB $\ 0$ Aluminum enclosure. GRP field / wall mount enclosures - IP67 / NEMA4X HD $\ 0$ Cable entry: no holes. HF $\ 0$ Cable entry: 2 x 0 form & 1 x 0 zomm. HF $\ 0$ Cable entry: 2 x 0 form & 1 x 0 zomm. HF $\ 0$ Cable entry: 2 x 0 zomm. HJ $\ 0$ Cable entry: 2 x M0 zomm. HD $\ 0$ Cable entry: 2 zomm. HD $\ 0$ Cable entry: 2 zomm. HD $\ 0$ Cable	T 😡	PT100 input.						
HB \odot Aluminum enclosure.HC \odot GRP enclosure.GRF field / wall mount enclosures - IP67 / NEMA4XHD \odot Cable entry: 2 x Ø sómm & x x Ø zomm.HF \odot Cable entry: 2 x Ø zomm.HF \odot Cable entry: 2 x Ø zomm.HF \odot Cable entry: 2 x Ø zomm.HH \odot Cable entry: 3 x Ø zomm (//s").HK \odot Flat bottom, cable entry: no holes.Aluminum field / wall mount enclosures - IP67 / NEMA4XHA \odot Cable entry: 2 x M36 + 1 x M20.HM \odot Cable entry: 2 x M36 + 1 x M20.HN \odot Cable entry: 2 x M36 + 1 x M20.HN \odot Cable entry: 2 x M36 + 1 x M20.HN \odot Cable entry: 2 x M36 + 1 x M20.HN \odot Cable entry: 1 x M20.HN \odot Cable entry: 2 x M36 + 1 x M20.HN \odot Cable entry: 1 x M20.HN \odot Cable entry: 2 x M36 + 1 x M20.HN \odot Cable entry: 1 x M20.HV \odot Cable entry: 2 x M36 + 1 x M20.HN \odot Cable entry: 1 x M20.HV \bigcirc Cable entry: 1 x M20.HV \bigcirc Cable entry: 1 x M20.HV \bigcirc Cable entry: 2 x M36HX \bigcirc Silicone free ABS field enclosure IP65 - Cable entry: no holes (old HD enclosure).Power supply $=$ 1 u	U 😡	o - 10V DC input.						
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GRP field / wall mount enclosures - IP67 / NEMA4XHD \odot Cable entry: no holes.HE \odot Cable entry: 2×0 form $8 \perp 0$ gorm.HF \ominus Cable entry: 2×0 zomm.HH \odot Cable entry: 3×0 zomm.HH \bigcirc Cable entry: 3×0 zomm.HK \bigcirc Flat bottom, cable entry: no holes.Atuminum field / wall mount enclosures - IP67 / NEMA4XHA \bigcirc Cable entry: $2 \times M16 + 1 \times M20$.HM \bigcirc Cable entry: $2 \times M16 + 1 \times M20$.HN \bigcirc Cable entry: $3 \times 1/2^m$ NPT.HU \bigcirc Silicone free ABS field enclosure IP65 - Cable entry: no holes (old HD enclosure).Power supplyPM	HB 🚱	Aluminum enclosure.						
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HE Cable entry: 2 × Ø 16mm & 1 × Ø 20mm. HF Cable entry: 1 × Ø 22mm (?/e?). HG Cable entry: 3 × Ø 20mm. HH Cable entry: 3 × Ø 22mm (?/e?). HK Cable entry: 1 × Ø 22mm (?/e?). HK Cable entry: 2 × Ø 22mm (?/e?). HK Cable entry: 2 × Ø 22mm (?/e?). HK Cable entry: 1 × Ø 22mm (?/e?). HK Cable entry: 1 × N20. HM Cable entry: 1 × M20. HM Cable entry: 1 × M20. HM Cable entry: 5 × M12. HT Cable entry: 1 × 1/."NPT. HU Cable entry: 1 × 1/."NPT. HU Cable entry: 1 × 1/."NPT. HU Cable entry: 1 × 1/."NPT. HS Silicone free ABS field enclosure IP65 – Cable entry: no holes (old HD enclosure). Power supply PS Lithium battery powered. PC Lithium battery powered. PC Lithium battery powered - Intrinsically Safe. PM	GRP fie	ld / wall mount enclosures - IP67 / NEMA4X						
HF $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	HD 🚱	Cable entry: no holes.						
HG \textcircled{O} Cable entry: $2 \times \emptyset$ zomm.HH \textcircled{O} Cable entry: $3 \times \emptyset$ zomm (7/8").HH \textcircled{O} Cable entry: $3 \times \emptyset$ zomm (7/8").HK \textcircled{O} Fat bottom, cable entry: no holes.Aluminum field / wall mount enclosures - IP67 / NEMA4XHA \textcircled{O} Cable entry: $2 \times P69 + 1 \times M20$.HM \textcircled{O} Cable entry: $2 \times P69 + 1 \times M20$.HM \textcircled{O} Cable entry: $2 \times M16 + 1 \times M20$.HM \textcircled{O} Cable entry: $2 \times M20$.HD \textcircled{O} Cable entry: $2 \times M20$.HD \textcircled{O} Cable entry: $2 \times M20$.HU \textcircled{O} Cable entry: $2 \times M20$.HD \textcircled{O} Cable entry: $2 \times M20$.HD \textcircled{O} Cable entry: $2 \times M20$.HU \textcircled{O} Cable entry: $1 \times M2^{2}$.HT \textcircled{O} Cable entry: $1 \times M2^{2}$.HZ \textcircled{O} Cable entry: $n holes$.ABSfield / wall mount enclosuresHS \textcircled{O} Silicone free ABS field enclosure IP65 - Cable entry: $n holes$ (old HD enclosure).Power supply P PBLithium battery powered.PC \textcircled{O} Lithium battery powered.PC \textcircled{O} Lithium battery powered.PD \textcircled{O} LO $D put loop powered from sensor signal 4 - 20mA (type A).PM115 - 30V DC + sensor supply.PX\textcircled{O}Basic power supply \textcircled{Safe}.XI\textcircled{O}Intrinsically Safe.XI\vcenter{O}Lithium bat$	HE 🚱	Cable entry: 2 x Ø 16mm & 1 x Ø 20mm.						
HH [©] Cable entry: 6 x Ø 12mm. HJ [©] Cable entry: 3 x Ø 22mm (?/ø"). HK [©] Flat bottom, cable entry: 10 holes. Aluminum field / wall mount enclosures - IP67 / NEMA4X HA [©] Cable entry: 2 x M09 + 1 x M20. HA [©] Cable entry: 2 x M06 + 1 x M20. HM [©] Cable entry: 1 x M20. HN [©] Cable entry: 1 x M20. HO [©] Cable entry: 1 x M20. HO [©] Cable entry: 1 x M20. HO [©] Cable entry: 1 x M20. HT [©] Cable entry: no holes. ABS field / wall mount enclosures HS [©] Silicone free ABS field enclosure IP65 – Cable entry: no holes (old HD enclosure). Power supply [®] Basi Endors upply. PF [§] Chithium battery powered. PC [®] Input loop powered from sensor signal 4 - 20mA (type A).	HF 😡	Cable entry: 1 x Ø 22mm (7/8").						
HJ ◎ Cable entry: 3 x Ø 22mm (7/8"). HK ◎ Flat bottom, cable entry: no holes. Aluminum field / wall mount enclosures - IP67 / NEMA4X HA ◎ Cable entry: 2 x MG + 1 x M20. HM ◎ Cable entry: 2 x M36 + 1 x M20. HN ◎ Cable entry: 2 x M36 + 1 x M20. HN ◎ Cable entry: 2 x M36 + 1 x M20. HN ◎ Cable entry: 2 x M36 + 1 x M20. HN ◎ Cable entry: 2 x M36 + 1 x M20. HP ◎ Cable entry: 3 x 1/"NPT. HU ◎ Cable entry: no holes. ABS field / wall mount enclosures HS ◎ Silicone free ABS field enclosure IP65 - Cable entry: no holes (old HD enclosure). Power supply PB Lithium battery powered. PC ◎ Lithium battery powered - Intrinsically Safe. PD ◎ 16 - 30V DC + sensor supply. PF 24V AC / DC + sensor supply. PF 24V AC / DC + sensor supply. PK ◎ Basic power supply 8 - 30V DC (no sensor supply for type A/U sensors). Hazardous area XI ◎ Intrinsically Safe. XF EExd enclosure - 3 keys. XX Safe area only. Other options ZB ◎ Backlight. ZV ◎ PRTD-range -200°C / +800°C.	HG 🖾	Cable entry: 2 x Ø 20mm.						
HK ◎ Flat bottom, cable entry: no holes. Aluminum field / wall mount enclosures - IP67 / NEMA4X HA ◎ Cable entry: 2 x PG9 + 1 x M20. HM ◎ Cable entry: 2 x M64 + 1 x M20. HM ◎ Cable entry: 1 x M20. HM ◎ Cable entry: 2 x M20. HP ◎ Cable entry: 2 x M20. HP ◎ Cable entry: 2 x M20. HT ◎ Cable entry: 3 x ¹ / ₂ "NPT. HU ◎ Cable entry: 3 x ¹ / ₂ "NPT. HU ◎ Cable entry: no holes. ABS field / wall mount enclosures HS ◎ Silicone free ABS field enclosure IP65 - Cable entry: no holes (old HD enclosure). Power supply PB Lithium battery powered. PC ◎ Lithium battery powered. PT 2 4V AC / DC + sensor supply. PF 24V AC / DC + sensor supply. PF 24V AC / DC + sensor supply. PK ◎ Basic power supply 8 - 30V DC (no sensor supply for type A/U sensors). Hazardous area XI ◎ Intrinsically Safe. XF Exd enclosure - 3 keys. XX Safe area only. Other options ZB ◎ Backlight. ZV ◎ PRTD-range -200°C / +800°C.								
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HA								
HM Cable entry: 2 x M16 + 1 x M20. HN Cable entry: 1 x M20. Cable entry: 2 x M20. HP Cable entry: 2 x M20. HP Cable entry: 6 x M12. HT Cable entry: 3 x 1/x"NPT. HU Cable entry: no holes. ABS field / wall mount enclosures HS Silicone free ABS field enclosure IP65 – Cable entry: no holes (old HD enclosure). Power supply PB Lithium battery powered. PC Lithium battery powered - Intrinsically Safe. PD 16 - 30V DC + sensor supply. PF 24V AC / DC + sensor supply. PF Lithium battery powered from sensor signal 4 - 20mA (type A). PM 15 - 230V AC + sensor supply. PX Basic power supply 8 - 30V DC (no sensor supply for type A/U sensors). Hazardocus area XI Intrinsically Safe. XI Ext enclosure - 3 keys. XX Safe area only. Cher options ZB PRTD-range -200°C / +800°C. 	Alumin	.m field / wall mount enclosures - IP67 / NEMA	μX					
HN								
H0 (a) Cable entry: 2 x M20. HP (b) Cable entry: 6 x M12. HT (c) Cable entry: 1 x $\frac{1}{2}$ "NPT. HU (c) Cable entry: 3 x $\frac{1}{2}$ "NPT. HZ (c) Cable entry: no holes. ABS field / wall mount enclosures HS (c) Silicone free ABS field enclosure IP65 – Cable entry: no holes (old HD enclosure). Power supply PB Lithium battery powered. PC (c) Lithium battery powered - Intrinsically Safe. PD (c) 16 - 30V DC + sensor supply. PF 24V AC / DC + sensor supply. PF 24V AC / DC + sensor supply. PK (c) Input loop powered from sensor signal 4 - 20mA (type A). PM 115 - 230V AC + sensor supply. PX (c) Basic power supply 8 - 30V DC (no sensor supply for type A/U sensors). Hazardous area XI (c) Intrinsically Safe. XF EExd enclosure - 3 keys. XX Safe area only. Other options ZB (c) Backlight. ZV (c) PRTD-range -200°C / +800°C.	HM 😡	Cable entry: 2 x M16 + 1 x M20.						
HP Cable entry: 6 x M12.HT Cable entry: 1 x 1/2"NPT.HU Cable entry: 3 x 1/2"NPT.HZ Cable entry: no holes.ABSField / wall mount enclosuresHS Silicone free ABS field enclosure IP65 – Cable entry: no holes (old HD enclosure).Power supplyPB Lithium battery powered.PC Lithium battery powered - Intrinsically Safe.PD 16 - 30V DC + sensor supply.PF 24V AC / DC + sensor supply.PK 230V AC + sensor supply.PK Salic power supply 8 - 30V DC (no sensor suppl for type A/U sensors).Hazardous areaXI Intrinsically Safe.XI Safe area only.Other optionsZB Backlight.ZV Packlight.ZV Packlight.ZV Packlight.ZV Packlight.	HN 🖾	Cable entry: 1 x M20.						
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PD ^{16 - 30V DC + sensor supply. PF ^{24V AC / DC + sensor supply. PL ^{115 - 230V AC + sensor signal 4 - 20mA (type A). 115 - 230V AC + sensor supply. ^{115 - 230V AC + sensor supply. PX [®] Basic power supply 8 - 30V DC (no sensor supply for type A/U sensors). Hazardous area ^{XX} XI [®] Intrinsically Safe. XF ^{EExd} enclosure - 3 keys. XX ^{Safe} area only. Other options ZB [®] Backlight. ZV [®] PRTD-range -200°C / +800°C.}}}}								
PF 24V AC / DC + sensor supply. PL Input loop powered from sensor signal 4 - 20mA (type A). PM 115 - 230V AC + sensor supply. PX Image: Basic power supply 8 - 30V DC (no sensor supply for type A/U sensors). Hazardous area XI Image: Intrinsically Safe. XF EExd enclosure - 3 keys. XX Safe area only. Other options ZB Backlight. ZV PRTD-range -200°C / +800°C.								
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XI Intrinsically Safe. XF EExd enclosure - 3 keys. XX Safe area only. Other options ZB Backlight. ZV PRTD-range -200°C / +800°C.			pe A/U sensors).					
XF EExd enclosure - 3 keys. XX Safe area only. Other options ZB Backlight. ZV PRTD-range -200°C / +800°C.								
XX Safe area only. Other options ZB Backlight. ZV PRTD-range -200°C / +800°C.								
Other options ZB Backlight. ZV PRTD-range -200°C / +800°C.		- ,						
ZB		•						
ZV @ PRTD-range -200°C / +800°C.								
7X (D) No options								
The bold marked text contains the standard configuration		No options.						

The bold marked text contains the standard configuration.

Available Intrinsically Safe.



Specifications are subject to change without notice.



