



Flow rate Indicator

with very large digits





The F-Series is your first and safest choice for field mount indicators in safe and hazardous area applications. Especially in harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°C up to +80°C (-40°F up to 176°F).

Advantages

- Robust aluminum or stainless steel 316L field enclosure (IP67 / NEMA Type4X). It is so rugged, a truck can even stand on it!
- Intrinsically Safe available ATEX, IECEx, FM and CSA approval for gas and dust applications.
- Programming can be done by your own crew, with the sensible menu-driven structure, saving cost and irritation.
 Know one, know them all!
- Very diverse mounting possibilities: walls, pipes, panels or directly onto outdoor sensors!

Features

- Displays instantaneous flow rate and measuring unit.
- Very large 26mm (1") digits.
- Piegraph indication: ten segments.
- Easy configuration with alphanumerical display and descriptions.
- LED backlight option.
- Selectable on-screen engineering units for volumetric or mass.
- Ability to process all types of signals: Sine wave (coil), NAMUR, NPN/PNP pulse, Reed-switch, Active pulse signals, (0)4-20mA, 0-10V DC.
- Power requirements: Input loop powered, battery powered or 8 - 30V DC, 24V AC/DC and 115 - 230V AC.
- Sensor supply: 3.2 / 8.2 / 12 / 24V DC.
- Explosion/flame proof available.



Introduction

The F010 is a local indicator to display the actual flow rate. The measuring and time unit to be displayed are simply selected through an alfanumerical 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 K-factors or Span 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 can be set to show the flow rate and the measuring and time units. As the F010 has been designed for field mounted applications, a smart display update function has been incorporated. Related to the lower temperatures, the update frequency of the LCD is tuned automatically to achieve a readable display even at -40°C / -40°F.

Configuration

All configuration settings are accessed via a simple operator menu which can be password protected. Each setting is clearly indicated with an alphanumerical description, which avoids confusing abbreviations and baffling codes. Once familiar with one F-series product, you will be able to program all models in the series without a manual. All settings are safely stored in EEPROM memory in the event of sudden power failure.

Hazardous area

For hazardous area applications, this model is ATEX, IECEx, FM and CSA certified as Intrinsically Safe for gas and dust applications, with an allowed ambient temperature of -40°C to +70°C (-40°F to +158°F). A flame proof Ex d enclosure with ATEX certification is also available.



Backlight

For those applications where readability during day and night is an issue, a white backlight is available. 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.

Power requirements

Several power supply options are available to power the F010 and sensor. Most popular is our battery powered version with a long life lithium battery which will last up to five years. For analog sensors, a 4 - 20mA loop powered version is available as well. A real sensor supply is offered with the 24V AC/DC or 115 -230V AC power requirement options.



All info at a glance



Easy to install



Easy to program



Know one know them all!



Reliable



User-friendly



Overview application F010

The F-Series is your first and safest choice for field mount indicators in safe and hazardous area applications. Especially in harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°C up to +80°C (-40°F up to 176°F). Flow measurement where a local flow rate indication is required without re-transmission or totalizer functionality. Alternative advanced models: F012 - F013 - F014 - F016 or even more advanced F110 and higher or the D-Series DIN panel mount flow rate indicators.



Flowmeter input

Signal input

The F010 accepts most pulse and analog input signals for volumetric flow or mass flow measurement. The input signal type can be selected by the user in the configuration menu without having to adjust any sensitive mechanical dip-switches, jumpers or trimmers. The analog input is available with linear and square root calculation and even as 4 - 20mA input loop powered.

Type of signal	Resistance	Low Pass filter (LP)	Max. frequency	Max. frequency Low Pass filter (LP)	Min. amplitude P-P	Remark
NPN	100kΩ pull-up	100kΩ pull-up	6kHz Threshold 1.2V	1.2kHz		Open collector
REED	1MΩ pull-up	1MΩ pull-up	600Hz Threshold 1.2V	120Hz		
PNP	47KΩ pull-down	100KΩ pull-down	6kHz Threshold 1.2V	1.2kHz		
NAMUR	820Ω pull-down	-	4kHz	-		External power required
COIL LO	-	-		-	90mV _{pp}	Default sensitivity
COIL-HI					20mV_{pp}	
COIL-HI (Type ZF)	-	-	-	-	10mV _{pp}	Sensitive for interference!
COIL-HI (Type ZG)					5mV _{pp}	
ACTIVE 8.2V DC	3K9Ω		10kHz Threshold 4V			External power required
ACTIVE 12V DC	4ΚΩ		10kHz Threshold 6V			External power required
ACTIVE 24V DC	3KΩ		10kHz Threshold 12V			External power required

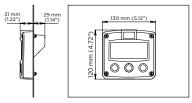


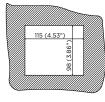
Enclosures

Various types of enclosures can be selected, all ATEX, IECEx, FM and CSA approved. The F010 is supplied in an GRP panel mount enclosure as standard, which can be converted to an IP67 / NEMA Type4X GRP field mount enclosure by the addition of a back case. Most popular is our robust aluminum field mount enclosure which is also available with an extended backcover with undrilled preparation for direct meter mounting at the back side. It is so rugged, even a truck can stand on it! For the most challenging environments we have a durable high grade Stainless steel 316L enclosure. All enclosures have a IP67 / NEMA Type4X rating and EU or U.S. cable gland entry threads available.

Dimensions enclosures

Aluminum & GRP panel mount enclosure

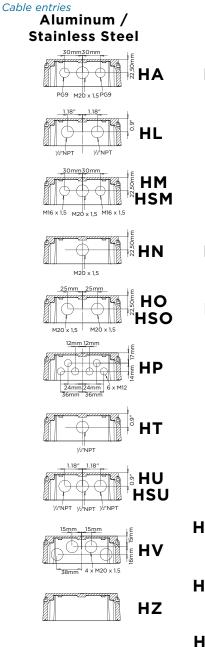


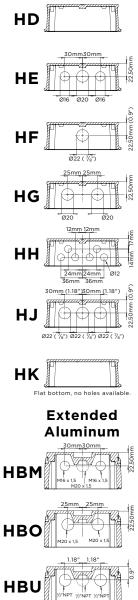


HB & HC enclosures

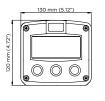
panel cut-out

GRP

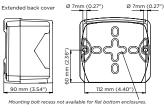




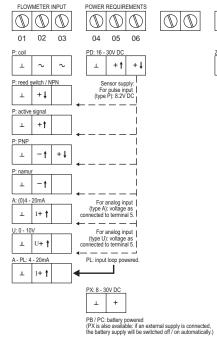
Aluminum, GRP & Stainless steel 316L field mount enclosures



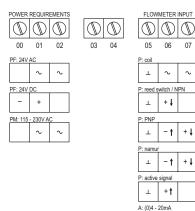




Terminal connections PB/PC - PD - PL - PX



Terminal connections PF - PM

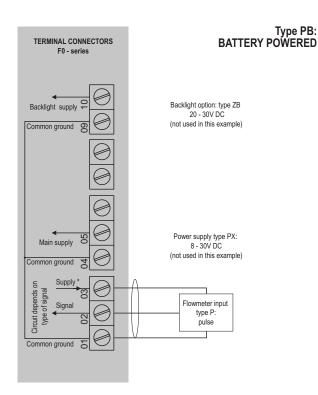




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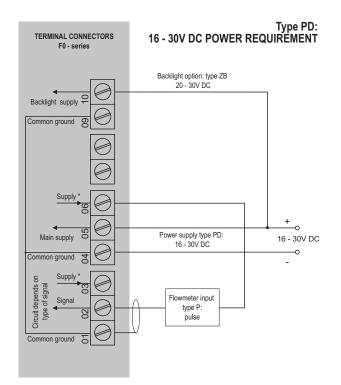
Configuration example F010-P-PB-(PX)-XX-(ZB)



* Sensor supply voltage for pulse flowmeter type P: Terminal 3: 1.2 / 3.2V DC.

* Sensor supply voltage for analog flowmeter type A / U: Terminal 3: not available.

Configuration example F010-P-PD-XX-ZB

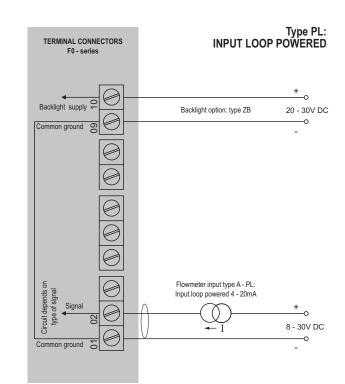


* Sensor supply voltage for pulse flowmeter type P: Terminal 3: 1.2 / 3.2V DC. Terminal 6 with type PD: 8.2V DC.

* Sensor supply voltage for analog flowmeter type A / U: Terminal 3: not available.

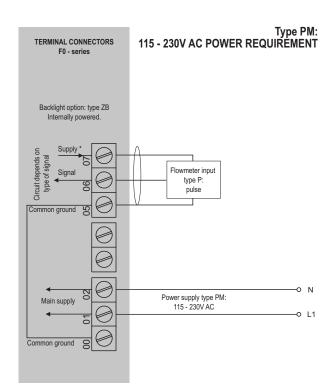
Terminal 6 with type PD: voltage as connected to terminal 5 (internally linked).

Configuration example F010-A-PL-XX-ZB



Sensor supply: sensor is externally powered

Configuration example F010-P-PM-XX-ZB



 * Sensor supply voltage for pulse flowmeter type P: Terminal 7: 1.2 / 3.2 / 8.2 / 12 / 24V DC.

 * Sensor supply voltage for analog flowmeter type A / U: Terminal 7: 8.2 / 12 / 24V DC.



Your success counts

Hazardous area applications

The F010-XI has been certified according to ATEX and IECEx by KEMA and according CSA c-us and FM for use in Intrinsically Safe applications with an ambient temperature of -40°C to $+70^{\circ}$ C (-40°F to +158°F).

• The ATEX markings for gas and dust applications are:

Gas: II 1 G Ex ia IIC T4 Ga.

Dust: II 1 D Ex ia IIIC T100 °C Da.

• The IECEx markings for gas and dust applications are: Gas: **Ex ia IIC T4 Ga**

Dust: Ex ia IIIC T100 °C Da.

• The CSA c-us markings are:

IS Class I/II/III, Division 1, Groups A to G T4. Class 1 Zone 0 AEx ia IIC T4 Ga. Ex ia IIC T4 Ga.

• The FM markings are:

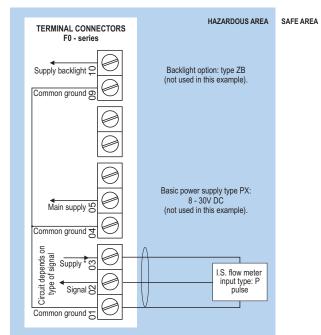
IS, Class I, II, III, Division 1, Groups A to G T4. Class I, Zone O, AEx ia IIC T4

Besides the I.S. power supply for the pulse output, it is allowed to connect up to three I.S. power supplies in IIB/IIIC applications or one in IIC applications. Consult the certificate for the maximum input and output values of the circuits. Full functionality of the F110 remains available, including 4 - 20mA output, pulse output and Modbus communication (type CT). Power supply type PD-XI offers a 8.2V sensor supply e.g. for one Namur sensor. An ATEX approved flame proof Ex d enclosure 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



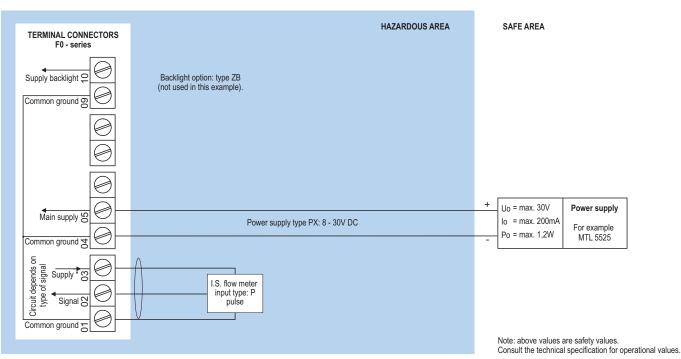
Configuration example IIA - IIIB and IIC F010-P-PC-(PX)-XI-(ZB) - Battery powered unit



* Sensor supply voltage for pulse flow meter type P : Terminal 3: 1.2 - 3.2V DC. Please note: type PX may be used in combination with the battery (type PC). PX will power the unit; the battery will be disabled automatically till power is disconnected.

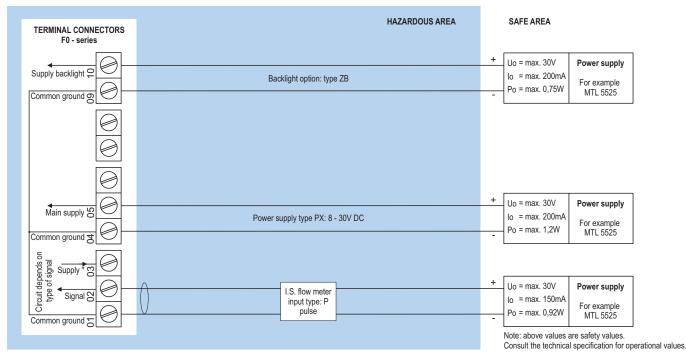


Configuration example IIA - IIB and IIC - F010-P-PX-XI-(ZB) - Basic power requirement 8 - 30V DC



* Sensor supply voltage for pulse type P: Terminal 3: 1.2V / 3.2V DC. Please note: type PX may be used in combination with the battery (type PC). PX will power the unit; the battery will be disabled automatically till power is disconnected.



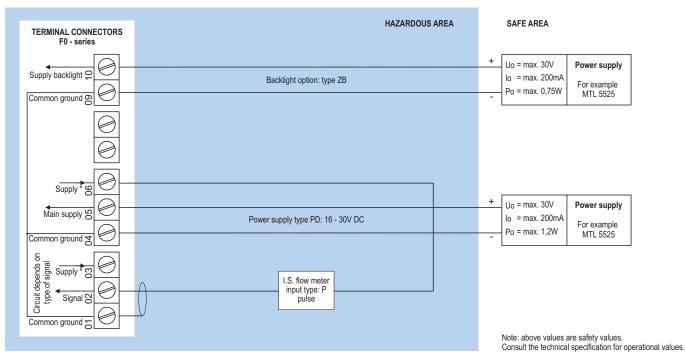


* Sensor supply voltage for pulse type P: Terminal 3: 1.2V / 3.2V DC.

Please note: type PX may be used in combination with the battery (type PC). PX will power the unit; the battery will be disabled automatically till power is disconnected.

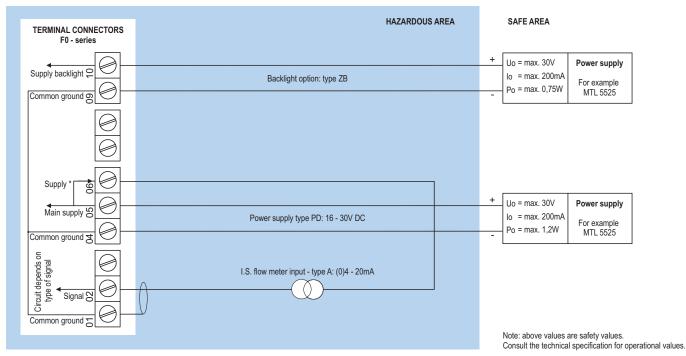


Configuration example IIA - IIB and IIC - F010-P-PD-XI-ZB - Power requirement 16 - 30V DC



* Sensor supply voltage for pulse type P: Terminal 3: 1.2V / 3.2V DC. Terminal 6: 8.2V DC. Please note: type PD may be used in combination with the battery (type PC). PD will power the unit; the battery will be disabled automatically till power is disconnected.

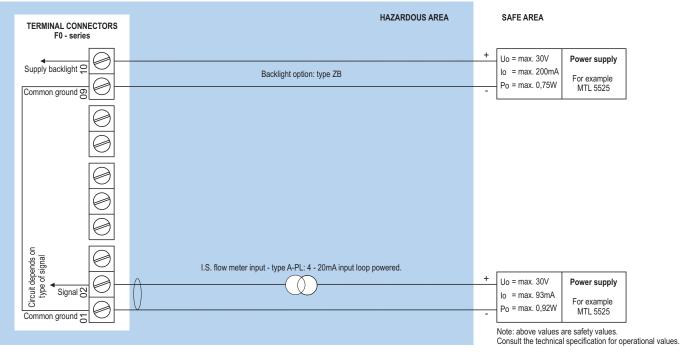
Configuration example IIA - IIB and IIC - F010-A-PD-XI-ZB - Power requirement 16 - 30V DC



* Sensor supply voltage for analog flow meter type A / U: Terminal 6: as input voltage terminal 5 (internally linked). Please note: type PD may be used in combination with the battery (type PC). PD will power the unit; the battery will be disabled automatically till power is disconnected.

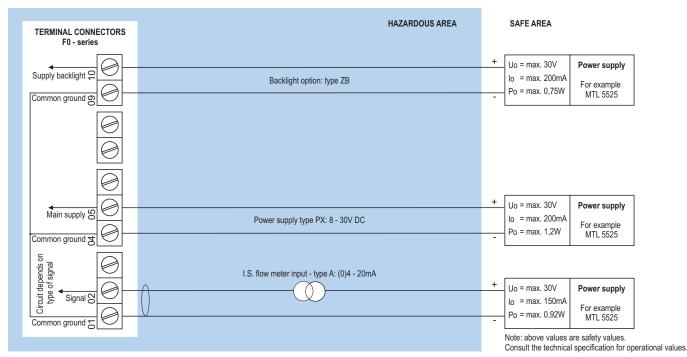


Configuration example IIA - IIB and IIC - F010-A-PL-XI-ZB - Input loop powered



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.

Configuration example IIA - IIB and IIC - F010-A-PX-XI-ZB - Basic power requirement 8 - 30V DC



* Sensor supply voltage for analog flow meter type A / U: not available in this example. Please note: type PX may be used in combination with the battery (type PC). PX will power the unit; the battery will be disabled automatically till power is disconnected.



Technical specifications F010

Display

Display	
Туре	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.
Piegraph	Ten segments - related to the input signal.
Refresh rate	User definable: fast, 1sec , 3sec, 15sec, 30sec, off.
Option ZB	Transflective LCD with white LED-backlight.
	Intensitiy can be adjusted in the configuration
	menu. Good readings in full sunlight and
	darkness. Also available Intrinsically Safe.

Ambient temperature

Safe areas	-40°C to +80°C (-40°F to +176°F).
Intrinsically Safe	-40°C to +70°C (-40°F to +158°F).

Power requirements

Туре РВ	Long life Lithium battery - life-time depends
	upon settings and configuration - up to 5 years.
	(requires PD, PL or PX)
Туре РС	Intrinsically Safe long life lithium battery
	life-time depends upon settings and
	configuration - up to 5 years.
	(requires XI and PD, PL or PX)
Type PD	16 - 30V DC. power consumption max. 1W.
Type PF	24V AC / DC ± 10%. Power consumption max. 15W.
Type PL	Input loop powered from sensor signal 4 - 20mA
	(type "A").
Туре РМ	115 - 230V AC ± 10%. Power consumption max. 15W.
Туре РХ	8 - 30V DC. Power consumption max. 0.3W.
Type ZB	20 - 30V DC ± 10%. Power consumption max. 1W.
	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 XI	For Intrinsically Safe applications, consult the
	safety values in the certificate.

Sensor excitation

Type PB/PC/PX	3.2V DC for pulse signals and 1.2V DC for coil
	pick-up.
Note PB/PC/PX	This is not a real sensor supply. Only suitable for
	sensors with a very low power consumption like
	coils (sine wave) and reed-switches.
Type PD	For pulse signals: 1.2 / 3.2 / 8.2V DC - max.
	5mA@8.2V DC. For analog signals, the sensor
	supply voltage is according to the power supply
	voltage connected.
Type PF / PM	With pulse input: 1.2 / 3.2 / 8.2 / 12 / 24V DC -
	max. 400mA @ 24V DC. With analog input: 8.2 /
	12 / 24V DC - max. 400mA @ 24V DC.

Terminal connections

Туре	Removable plug-in terminal strip.
	Wire max. 1.5mm ² and 2.5mm ²

Data protection

Туре	EEPROM backup of all settings. Backup of
	running totals every minute. Data retention at
	least 10 years.
Password	Configuration settings can be password protected.

Directives & Standards

EMC	Directive 2014/30/EU, FCC 47 CFR part 15.
Low voltage	Directive 2014/35/EU
RoHS	Directive 2011/65/EU
ATEX / IECEx	Directive 2014/34/EU, IEC 600079-0,
	IEC 60079-11. IP & NEMA EN 60529 & NEMA 250
FM	FM Class No. 3600, FM Class No. 3610.
CSA	CSA 22.2 No. 157-92.
IP & NEMA	EN 60529 & NEMA 250.

Intrinsically Safe (Type XI)

ATEX	Gas: II 1 G Ex ia IIC T4 Ga.
	Dust: II 1 D Ex ia IIIC T100 °C Da.
IECEx	Gas: Ex ia IIC T4 Ga.
	Dust: Ex ia IIIC T100 °C Da.
CSA c-us	IS Class I/II/III, Division 1, Groups A to G T4.
	Class 1 Zone 0 AEx ia IIC T4 Ga.
	Ex ia IIC T4 Ga.
FM	IS, Class I, II, III, Division 1, Groups A to G T4.
	Class I, Zone O, AEx ia IIC T4
Ambient Ta	-40°C to +70°C (-40°F to +158°F).

Explosion proof (Type XF)

ATEX	II 2 G / Ex d IIB T5 Gb.
	II 2 D / Ex t IIIB T100 °C Db.
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.
Note XF	IECEx available on request.



Technical specifications F010

Enclosure

Window	Polycarbonate window.
Sealing	Silicone.
Control keys Three industrial micro-switch keys. UV-resis	
	silicone keypad.

Panel mount enclosures

Dimensions	130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D.
Panel cut-out	115 x 98mm (4.53" x 3.86") L x H.
Туре НВ	Die-cast aluminum panel mount enclosure IP65 /
	NEMA Type4X.
Weight	600 gr.
Туре НС	GRP panel mount enclosure IP65 / NEMA
	Type4X, UV-resistant and flame retardant.
Weight	450 gr.

GRP wall / field mount enclosures

General	GRP wall/field mount enclosure IP67 / NEMA
	Type4X, 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.
Туре НЕ	Cable entry: 2 x Ø 16mm and 1 x Ø 20mm.
Type HF	Cable entry: 1 x Ø 22mm (7/8").
Type HG	Cable entry: 2 x Ø 20mm.
Туре НН	Cable entry: 6 x Ø 12mm.
Type HJ	Cable entry: 3 x Ø 22mm (7/8").
Туре НК	Flat bottom, cable entry: no holes.

Aluminum wall / field mount enclosures

General	Die-cast aluminum wall/field mount enclosure			
	IP67 / NEMA Type4X with 2-component			
	UV-resistant coating.			
	Extended back cover available with undrilled			
	preparation for direct meter mounting.			
Dimensions	130 x 120 x 75mm (5.12" x 4.72" x 2.95") - W x H x D.			
	130 x 120 x 90mm (5.12" x 4.72" x 3.54") - W x H x D.			
Weight	1100 gr. / extended enclosure: 1310 gr.			
Туре НА	Cable entry: 2 x PG9 and 1 x M20.			
Type HL	Cable entry: $2 \times \frac{1}{2}$ " NPT.			
Type HM/HBM	Cable entry: 2 x M16 and 1 x M20.			
Туре НМ	Cable entry: 1 x M20.			
Type HO/HBO	Cable entry: 2 x M20.			
Туре НР	Cable entry: 6 x M12.			
Туре НТ	Cable entry: 1 x $\frac{1}{2}$ " NPT.			
Type HB/HBU	Cable entry: $3 \times \frac{1}{2}$ " NPT.			
Туре НV	Cable entry: 4 x M20.			
Type HZ	Cable entry: no holes.			
Note	The extended back covers HBM/HBO/HBU,			
	require type XX.			

Stainless steel 316L wall / field mount enclosures

General	Die-cast stainless steel 316L wall / field mount			
	enclosure with flat bottom. IP67 / NEMA			
	Type4X.			
Dimensions	130 x 120 x 75mm (5.12" x 4.72" x 2.95") - W x H x D.			
Weight	2700 gr.			
Type HSM	Cable entry: 2 x M16 + 1 x M20.			
Type HSO	Cable entry: 2 x M20.			
Type HSU	Cable entry: 3 x ½"NPT.			

Signal inputs	s - Flowmeter
Туре Р	Coil / sine wave (HI: 20mVpp or LO: 90mVpp -
	sensitivity selectable), NPN/PNP, open collector,
	reed switch, Namur, active pulse signals 8 - 12
	and 24V DC.
Frequency	Minimum OHz - maximum 6kHz for total and
	flow rate. Maximum frequency depends on signal
	type and internal low-pass filter. E.g. reed switch
	with low-pass filter: max. frequency 120Hz.
K-Factor	0.000010 - 199,999 with variable decimal
	position.
Low-pass filter	Available for all pulse signals.
Option ZF	coil sensitivity 10mVpp.
Option ZG	coil sensitivity 5mVpp.
Туре А	(0)4 - 20mA. Analog input signal can be scaled
	to any desired range within 0 - 20mA.
Туре U	0 - 10V DC. Analog input signal can be scaled to
	any desired range within 0 - 10V DC.
Accuracy	Resolution: 16 bit. Error < 0.01mA / ± 0.05% FS.
	Low level cut-off programmable.
Span	0.000010 - 199,999 with variable decimal
	position.
Update time	Four times per second.
Voltage drop	Type A: max. 1V DC @ 20mA.
Voltage drop	Type A - PL (loop powered): max. 2.6V DC @
	20mA.
Relationship	Linear and square root calculation.
Note A	For signal type A: external power to sensor is
	required; e.g. type PD.

Operator functions

Displayed info	• Flow rate.				
	 Measuring and time units. 				

Flow rate

Digits	$5^{1}/_{2}$ digits.
Units	mL, L, m ³ , Gallons, kg, Ton, lb, bl, cf, REV, ft ³ , scf,
	Nm³, NI, igal - no units.
Decimals	0 - 1 - 2 - 3 - 4 or 5.
Time units	/sec - /min - /hr - /day.

Mounting accessories

ACF02	Stainless steel wall mounting kit.
ACF05	Stainless steel pipe mounting kit
	(worm gear clamps not included).
ACF06	Two stainless steel worm gear clamps
	Ø 44 - 56mm.
ACF07	Two stainless steel worm gear clamps
	Ø 58 - 75mm.
ACF08	Two stainless steel worm gear clamps
	Ø 77 - 95mm.
ACF09	Two stainless steel worm gear clamps
	Ø 106 - 138mm.
ACF11	Swivel with 25° movement from center axis for
	direct flowmeter mounting: 1" NPT to 1/2" NPT.



Ordering information F010

		Description						
Model	F010	Flow rate indicator with very large digits.						
Input	А	(0)4 - 20mA input.	-A					
	Р	Pulse input, e.g., coil, npn, pnp, namur, reed-switch.	-P					
	U	0 - 10V DC input.	-U					
	HB	Aluminum panel mount enclosureH						
· · · ·	HC	GRP panel mount enclosure.			-НС			
	HD	GRP field mount - Cable entry: no holes.			-HD			
	HE	GRP field mount - Cable entry: 2 x Ø 16mm & 1 x Ø 20mm.		-HE				
	HF	GRP field mount - Cable entry: 1 x Ø 22mm ($^{7}_{ m B}$ ").		-HF				
	HG	GRP field mount - Cable entry: 2 x Ø 20mm.		-HG				
	НН	GRP field mount - Cable entry: 6 x Ø 12mm.		-HH				
	HJ	GRP field mount - Cable entry: 3 x Ø 22mm ($\frac{7}{8}$ ").		-HJ	-HJ			
	НК	GRP field mount, flat bottom - Cable entry: no holes.		-HK	-HK			
	HA	· · · · · · · · · · · · · · · · · · ·			-HA			
	HL				-HL			
Enclosures	HM	Aluminum field mount - Cable entry: 2 x M16 + 1 x M20HM						
lost	HN	Aluminum field mount - Cable entry: 1 x M20HN						
Enc	НО	Aluminum field mount - Cable entry: 2 x M20.			-НО			
	HP	Aluminum field mount - Cable entry: 6 x M12.						
	ΗT	Aluminum field mount - Cable entry: 1 x ½"NPT.						
	HU	Aluminum field mount - Cable entry: 3 x $\frac{1}{2}$ "NPT.						
	ΗV	Aluminum field mount - Cable entry: 4 x M20.			-HV			
	ΗZ	Aluminum field mount - Cable entry: no holes.			-HZ			
	HBM	Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20 - req. XX.		-HBM				
	HBO	Extended Alu. field/meter mount - Cable entry: 2 x M20 - requires XX.		-HBO				
	HBU	Extended Alu. field/meter mount - Cable entry: 3 x $\frac{1}{2}$ "NPT - requires XX.		-HBU				
	HSM	Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20.		-HSM				
	HSO	Stainless steel 316L field mount - Cable entry: 2 x M20H		-HSO	-HSO			
	HSU	Stainless steel 316L field mount - Cable entry: 3 x $\frac{1}{2}$ "NPTH		-HSU	HSU			
	PD	16 - 30 V DC + sensor supply.			-PD			
ē	PF	24V AC/DC + sensor supply - requires XX.			-PF			
Power	PL	Input loop powered from sensor signal type "A" .			-PL			
<u>م</u>	PM	115 - 230V AC + sensor supply - Safe area only .			-PM			
	PX	Basic power supply 8 - 30V DC.				-РХ		
Battery	PB	Additional lithium battery powered (opt.) - requires XX and PD or PX.			-PB -P_			
	PC	Additional lithium battery powered (opt.) - Intrins. safe - requires XI and PD or PX.			-PC -P_			
Hazardous	XI	Intrinsically safe, according ATEX, IECEx, CSA c-us and FM.			-XI			
	XF	Ex d enclosure - 3 keys according ATEX.			-XF			
	XX	Safe area only.				-XX		
S	ZB	Backlight.					-ZB	
Options	ZF	Coil input 10mVpp.				-ZF		
	ZG	Coil input 5mVpp.				-ZG		
	ZX No options.				-		-ZX	
		F010 ·		-H	-P_	-X_	-Z_	

The **bold** marked text contains the standard configuration: F010-P-HC-PX-XX-ZX.

