



# Flow rate Indicator / Totalizer

displays flow rate and total simultaneously





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, total and accumulated total.
- Large 17mm (0.67") digits for flow rate or total.
- Easy configuration with clear alphanumerical display.
- 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.
- 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.
- Auto backup of settings and running totals.
- Explosion/flame proof available, according ATEX/IECEx.



# Introduction

The F012 is a local indicator to display the actual flow rate, total and accumulated total. The total can be reset to zero by pressing the CLEAR button twice. The eleven digit accumulated total however can not be reset to zero. A wide selection of options further enhances the capabilities of this model, including Intrinsic Safety for hazardous area applications.

# Display

The display has large 17mm (0.67") and 8mm (0.31") digits which can be set to show flow rate and / or totals. On-screen engineering units are easily configured from a comprehensive selection. The accumulated total can register up to 11 digits and is backed-up in EEPROM memory every minute, just as the running total. As the FO12 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/IECEx 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 F012 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 option.



All info at a glance



Easy to install



Easy to program



Know one know them all!



Reliable



User-friendly



# **Overview application F012**

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 and totalizer function is required without re-transmission functionality. Alternative basic models F010 and F011 or more advanced F013 - F014 - F016 - F110 and higher or the D-Series DIN panel mount flow rate indicators.



Flowmeter input

# Signal input

The F012 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 <sub>pp</sub>	Default sensitivity
COIL-HI					$20 \text{mV}_{\text{pp}}$	
COIL-HI (Type ZF)	-	-	-	-	10mV <sub>pp</sub>	Sensitive for interference!
COIL-HI (Type ZG)					5mV <sub>pp</sub>	
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

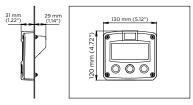


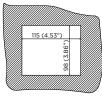
# **Enclosures**

Various types of enclosures can be selected, all ATEX, IECEx, FM and CSA approved. The F012 is supplied in an GRP panel mount enclosure as standard, which can be converted to an IP67 / NEMA 4X 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

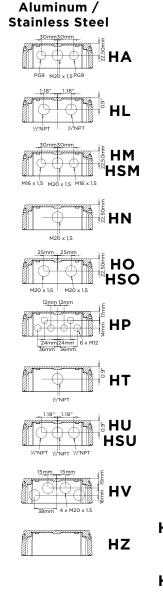


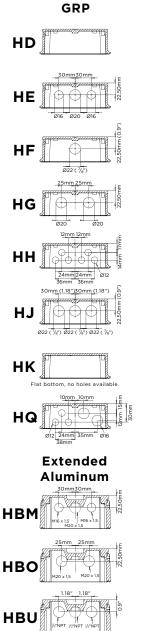


HB & HC enclosures

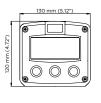
panel cut-out

#### Cable entries



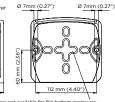


#### Aluminum, GRP & Stainless steel 316L field mount enclosures

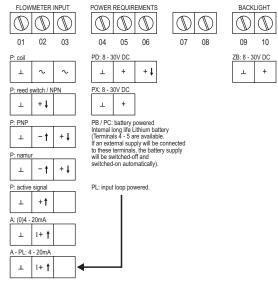




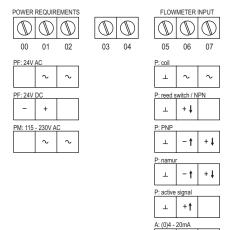




# Terminal connections PB/PC - PD - PL - PX

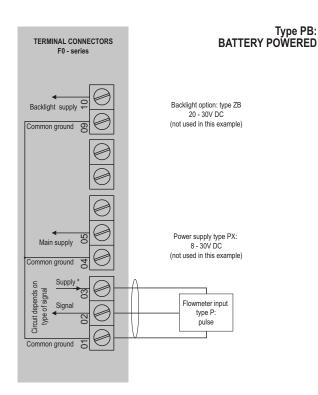


# Terminal connections PF - PM



⊥ | I+↑ | +↓

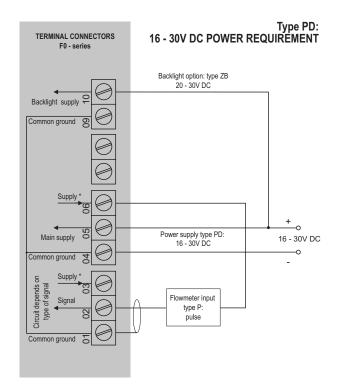
#### Configuration example F012-P-PB-(PX)-XX-(ZB)



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

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

#### Configuration example F012-P-PD-XX-ZB

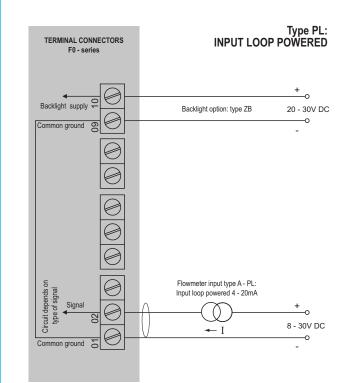


\* Sensor supply voltage for pulse flowmeter type P: Terminal 3: 1.2 / 3.2V DC. Terminal 6 with type PD: 8.2V DC.

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

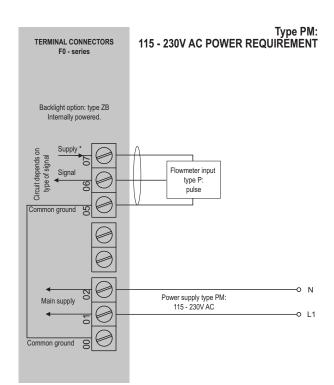
Terminal 6 with type PD: voltage as connected to terminal 5 (internally linked).

#### Configuration example F012-A-PL-XX-ZB



Sensor supply: sensor is externally powered

#### Configuration example F012-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: Terminal 7: 8.2 / 12 / 24V DC.

# Your success counts

# Hazardous area applications

FLUIDWELL

The F012-XI has been certified according to ATEX and IECEx by DEKRA and according CSA c-us and FM for use in Intrinsically Safe applications with an ambient temperature of -40°C to +70°C (-40°F to +158°F). For equipment category 1 D (EPL Da), -40°C to +50°C (-40°F to +122°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 T<sub>200</sub> 100 °C Da.

• The IECEx markings for gas and dust applications are:

Gas: Ex ia IIC T4 Ga

Dust: Ex ia IIIC T<sub>200</sub> 100 °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

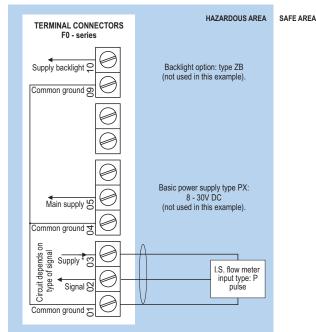
It is allowed to connect up to three I.S. power supplies to power the unit, sensor and backlight. Consult the certificate for the maximum input and output values of the circuits. The F012-PD-XI offers a 8.2V DC sensor supply to power e.g. a Namur sensor or the input voltage to power an analog sensor. An ATEX/IECEx approved flame proof Ex d enclosure is available as well. Please contact your supplier for further details.

Note: Extended aluminum enclosures are not available with CSA c-us and FM approvals.



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

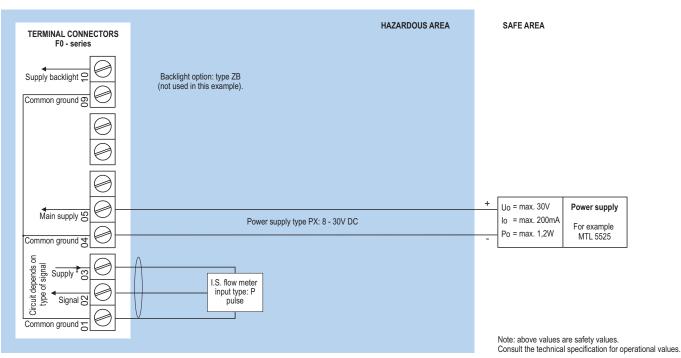
# Configuration example IIA - IIIB and IIC F012-P-PC-(PX)-XI-(ZB) - Battery powered unit



\* Sensor supply voltage for pulse flowmeter 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.

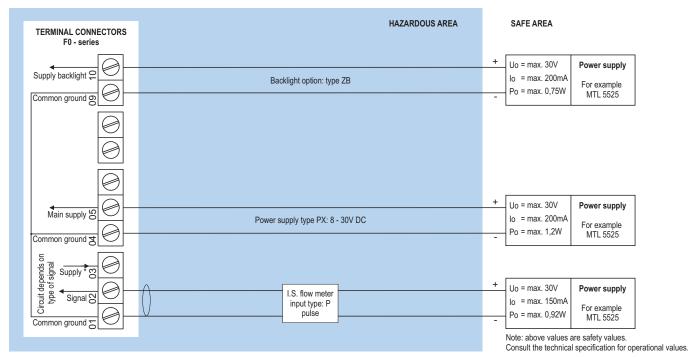


#### Configuration example IIA - IIB and IIC - F012-P-PX-XI-(ZB) - Basic power requirement 8 - 30V DC



\* 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.



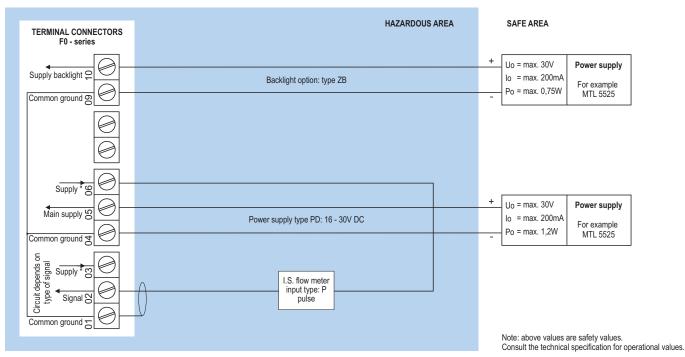


\* Sensor supply voltage for pulse type P: Terminal 3: 1.2V / 3.2V DC.

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.

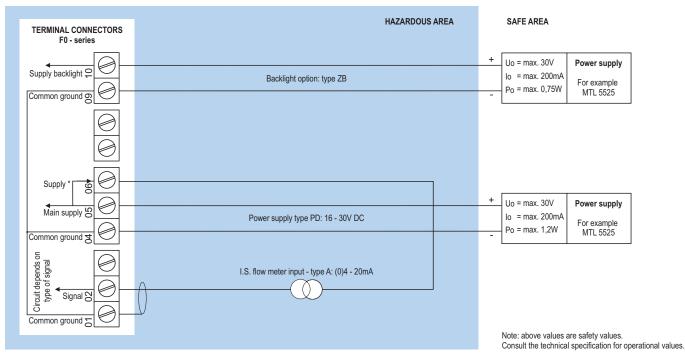


#### Configuration example IIA - IIB and IIC - F012-P-PD-XI-ZB - Power requirement 16 - 30V DC



\* 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.

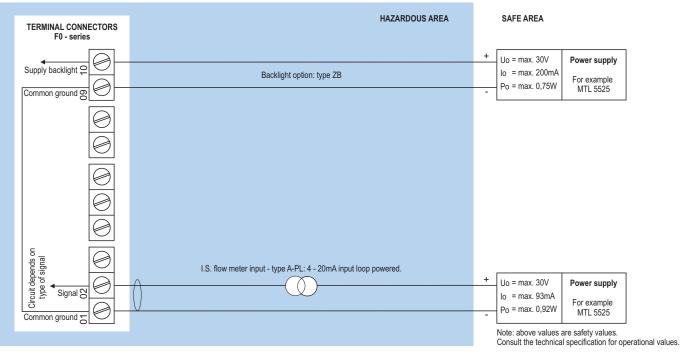
Configuration example IIA - IIB and IIC - F012-A-PD-XI-ZB - Power requirement 16 - 30V DC



\* Sensor supply voltage for analog flow meter type A: 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.

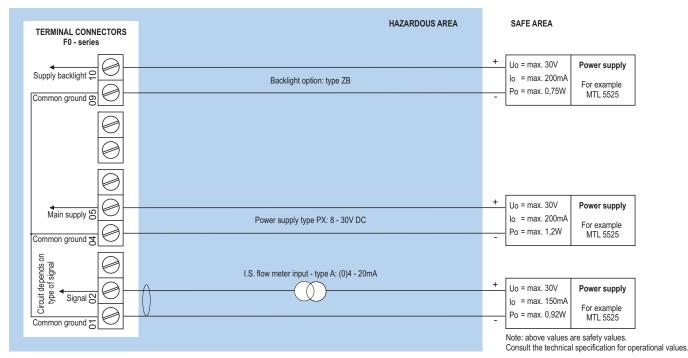


#### Configuration example IIA - IIB and IIC - F012-A-PL-XI-ZB - Input loop powered



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 - F012-A-PX-XI-ZB - Basic power requirement 8 - 30V DC



\* Sensor supply voltage for analog flow meter type A: 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 F012

# Display

Туре	High intensity reflective numeric and
	alphanumeric LCD, UV-resistant.
Dimensions	90 x 40mm (3.5" x 1.6").
Digits	Seven 17mm (0.67") and eleven 8mm (0.31")
	digits. Various symbols and measuring units.
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).
EPL Ga / 1G	-40°C to +70°C (-40°F to +158°F).
EPL Da / 1D	-40°C to +50°C (-40°F to +122°F).
	max. dust layer thickness: 200mm.
EPL Db / 2D	-40°C to +70°C (-40°F to +158°F).
	max. dust layer thickness: 5mm.

## 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 <sup>2</sup> and 2.5mm <sup>2</sup>

#### 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**

	otaridardo
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.
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 T <sub>200</sub> 100 °C Da.
IECEx	Gas: Ex ia IIC T4 Ga.
	Dust: Ex ia IIIC T <sub>200</sub> 100 °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.
FM	IS, Class I, II, III, Division 1, Groups A to G T4.
	Class I, Zone O, AEx ia IIC T4
Note	Extended aluminum enclosures are not available
CSA c-us/FM	with CSAc-us and FM approvals.

# Explosion proof (Type XF)

Dust: II 2 D Ex tb IIIC T80°C.
IP66
Dimensions of enclosure: 300 x 250 x 200mm
(11.8" x 9.9" x 7.9") L x H x D.
Appr. 15kg.



# Technical specifications F012

#### Enclosure

Eliciosuic	
Window	Polycarbonate window.
Sealing	Silicone.
Control keys	Three industrial micro-switch keys. UV-resistant
	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.
Type HSB	Die-cast stainless steel 316L IP67/NEMA Type4X.
Weight	1150gr.
Weight	1150gr.

#### **GRP wall / field mount enclosures**

GRP wall/field mount enclosure IP67 / NEMA
Type4X, UV-resistant and flame retardant.
130 x 120 x 75mm (5.12" x 4.72" x 2.95") - W x H x D.
600 gr.
Cable entry: no holes.
Cable entry: 2 x Ø 16mm and 1 x Ø 20mm.
Cable entry: 1 x Ø 22mm (⅔").
Cable entry: 2 x Ø 20mm.
Cable entry: 6 x Ø 12mm.
Cable entry: 3 x Ø 22mm (7/8").
Flat bottom, cable entry: no holes.
Cable entry: 2 x Ø 16mm & 3 x Ø 12mm.

# 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 x ½" NPT.
Type HM/HBM	Cable entry: 2 x M16 and 1 x M20.
Type HN	Cable entry: 1 x M20.
Type HO/HBO	Cable entry: 2 x M20.
Туре НР	Cable entry: 6 x M12.
Туре НТ	Cable entry: $1 \times \frac{1}{2}$ " NPT.
Type HU/HBU	Cable entry: 3 x ½" NPT.
Type HV	Cable entry: 4 x M20.
Type HZ	Cable entry: no holes.
Note	Extended aluminum enclosures are not available
CSA c-us/FM	with CSAc-us and FM approvals.

## 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 - 9,999,999 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. Contact factory.
Accuracy	Resolution: 16 bit. Error < 0.01mA / ± 0.05% FS.
	Low level cut-off programmable.
Span	0.0010 - 999,999 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.

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## **Operator functions**

<b>Displayed info</b>	<ul> <li>Flow rate and / or total.</li> </ul>

- Total and accumulated total.
- Total can be reset to zero by pressing the CLEAR-key twice.

#### Total

Digits	7 digits.
Units	L, m³, GAL, USGAL, kg, lb, bbl, no unit.
Decimals	0 - 1 - 2 or 3.
Note	Total can be reset to zero.

#### **Accumulated total**

Digits	11 digits.
Units / Decimals	According to selection for total.
Note	Can not be reset to zero.

#### Flow rate

Digits	7 digits.
Units	mL, L, m <sup>3</sup> , Gallons, kg, Ton, lb, bl, cf, RND, ft <sup>3</sup> , scf,
	Nm³, Nl, igal - no units.
Decimals	0 - 1 - 2 or 3.
Time units	/sec - /min - /hr - /day.



# Ordering information F012

	Description	
Model	F012	Flow rate indicator / totalizer displays flow rate and total simultaneously.
Input	А	(0)4 - 20mA input.
Input	Р	Pulse input, e.g., coil, npn, pnp, namur, reed-switch.
	HB	Aluminum panel mount enclosure.
	нс	GRP panel mount enclosure.
	HSB	Stainless steel 316L panel mount enclosure.
	HD	GRP field mount - Cable entry: no holes.
	HE	GRP field mount - Cable entry: 2 x Ø 16mm & 1 x Ø 20mm.
	HF	GRP field mount - Cable entry: 1 x Ø 22mm (7/8").
	HG	GRP field mount - Cable entry: 2 x Ø 20mm.
	НН	GRP field mount - Cable entry: 6 x Ø 12mm.
	HJ	GRP field mount - Cable entry: $3 \times \emptyset$ 22mm ( $\frac{7}{8}$ ").
	НК	GRP field mount, flat bottom - Cable entry: no holes.
	HQ	GRP field mount - Cable entry: 2 x Ø 16mm & 3 x Ø 12mm.
	HA	Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20.
Enclosures	HL	Aluminum field mount - Cable entry: 2 x ½"NPT.
lost	HM	Aluminum field mount - Cable entry: 2 x M16 + 1 x M20.
Enc	HN	Aluminum field mount - Cable entry: 1 x M20.
	НО	Aluminum field mount - Cable entry: 2 x M20.
	HP	Aluminum field mount - Cable entry: 6 x M12.
	HT	Aluminum field mount - Cable entry: 1 x ½"NPT.
	HU	Aluminum field mount - Cable entry: 3 x ½"NPT.
	ΗV	Aluminum field mount - Cable entry: 4 x M20.
	ΗZ	Aluminum field mount - Cable entry: no holes.
	HBM	Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20 (not with CSAc-us / FM approvals).
	НВО	Extended Alu. field/meter mount - Cable entry: 2 x M20 (not with CSAc-us / FM approvals).
	HBU	Extended Alu. field/meter mount - Cable entry: 3 x $\frac{1}{2}$ "NPT (not with CSAc-us / FM approvals).
	HSM	Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20.
	HSO	Stainless steel 316L field mount - Cable entry: 2 x M20.
	HSU	Stainless steel 316L field mount - Cable entry: 3 x $\frac{1}{2}$ "NPT.
	PD	16 - 30 V DC + sensor supply.
ž	PF	24V AC/DC + sensor supply - requires XX.
Power	PL	Input loop powered from sensor signal type "A".
۵.	PM	115 - 230V AC + sensor supply - requires XX.
	PX	Basic power supply 8 - 30V DC.
Battery	PB	Additional lithium battery powered (opt.) - requires XX and PD, PL or PX.
Dattery	PC	Additional lithium battery powered (opt.) - Intrins. safe - requires XI and PD, PL or PX.
sno	XI	Intrinsically safe, according ATEX, IECEx, CSA c-us and FM.
Hazardous	XF	Ex d enclosure - 3 keys according ATEX and IECEx.
Hai	ХХ	Safe area only, according CE / UKCA.
- 10	ZB	Backlight.
Options	ZF	Coil input 10mVpp.
Opt	ZG	Coil input 5mVpp.
	ZX	No options.
The <b>bold</b>	marked t	ext contains the standard configuration: F012-P-HC-PX-XX-ZX.

