

# FLOWCOMPUTER

WITH TEMPERATURE AND PRESSURE  
COMPENSATION FOR CORRECTED GAS VOLUME



## Features

- Calculates compensated flow rate, total and accumulated total.
- Displays actual line pressure and temperature.
- Selectable on-screen engineering units; volumetric or mass.
- 7 digit resettable total.
- 11 digit accumulated total.
- Analog signal output.
- Very compact design for panel mount, wall mount or field mount applications.
- Operational temperature -40°C up to +80°C (-40°F up to 176°F).
- Rugged aluminum field mount enclosure IP67/NEMA4X.
- Intrinsically Safe - ATEX and IECEx approval for gas and dust applications.
- Explosion/flame proof  $\text{Ex}$  II 2 GD EEx d IIB T5.
- Full Modbus communication RS232/485/TTL.
- Loop or battery powered, 8 - 24V AC/DC or 115 - 230V AC power supply.

## Signal output

- (0)4 - 20mA / 0 - 10V DC according to compensated flow rate.

## Signal input

### Flow

- Reed-switch.
- NAMUR.
- NPN/ PNP pulse.
- Sine wave (coil).
- Active pulse signals.
- (0)4 - 20mA.
- 0 - 10V DC.

### Temperature

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

### Pressure

- (0)4 - 20mA.
- 0 - 10V DC.

## Applications

- Applications where nett gas flow calculation at base conditions is desired.

## General information

### Introduction

The flowcomputer Model F126-EG has been developed to calculate the gas volume at normal conditions for generic products, in most cases at 0°C (32 °F) and 1.013 Bar. If desired, any other temperature or pressure can be set. The corrected volumetric flow is calculated using the equations stored in the flowcomputer while a compressibility factor can be set to approach a real gas behaviour. A wide selection of options further enhances the capabilities of this model, including Intrinsic Safety and full Modbus communication.

### Display

The display has large 17mm (0.67") and 8mm (0.31") digits which can be set to show flow rate, total, temperature and pressure. On-screen engineering units are easily configured from a comprehensive menu. The accumulated total can register up to 11 digits and is backed-up in EEPROM memory every minute.

### Configuration

All configuration settings are accessed via a simple operator menu which can be pass-code protected. Each setting is clearly indicated with an alphanumeric 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.

### Analog output signal

The calculated flow rate is re-transmitted with the (0)4 - 20mA or 0 - 10V DC output signal. The output signal is updated ten times per second with a filter function being available to smoothen out the signal if desired. The output value is user defined in relation to the flow rate, e.g. 4mA equals to 15Nm<sup>3</sup>/Hr and 20mA equals to 2000Nm<sup>3</sup>/Hr. The output signal can be passive, active or isolated where the passive output type will loop power the F126-EG as well.

### Signal input

The flowcomputer measures the uncorrected volumetric flow, line temperature and pressure. The F126-EG will accept most pulse and analog input signals for flow. For the temperature measurement, 2 or 3 wire PT100 elements or sensors with a (0)4 - 20mA / 0 - 10V DC output signal can be used, just as for the pressure measurement.

### Communication

All process data and settings can be read and modified manually or through the Modbus communication link (RS232 / RS485). Full Modbus functionality remains available for the Intrinsically Safe version (TTL).

### Hazardous areas

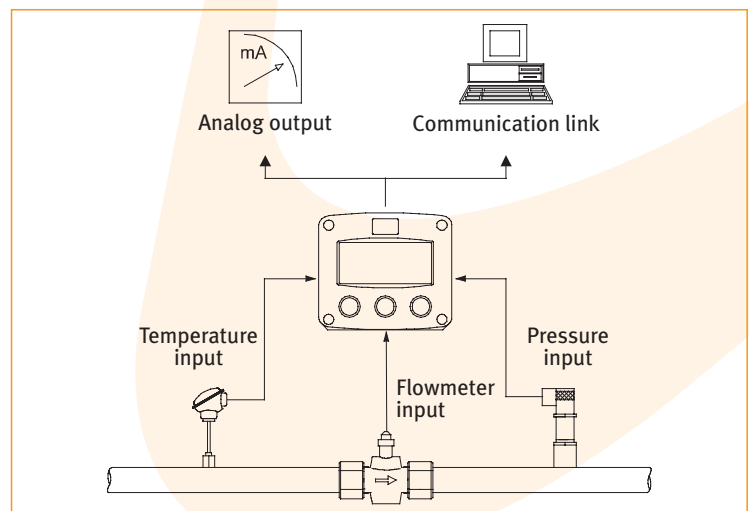
This model has been ATEX and IECEx certified Intrinsically Safe for gas and dust applications, with an allowed operational temperature of -40°C to +70°C (-40°F to +158°F).

A flame proof enclosure with ATEX certification offers the rating  $\text{Ex}$  II 2 GD EEx d IIB T5.

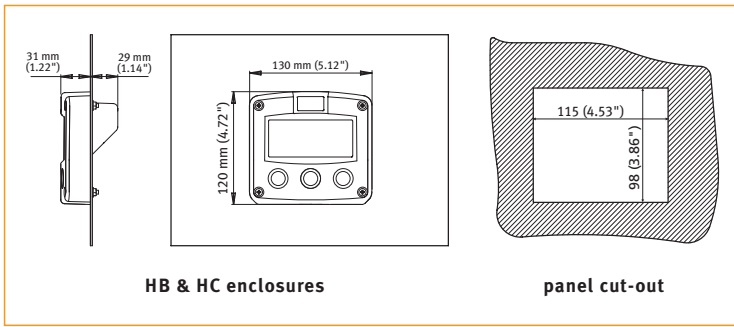
### Enclosures

Various types of enclosures can be selected, all ATEX and IECEx approved. As standard the F126-EG 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 F126-EG



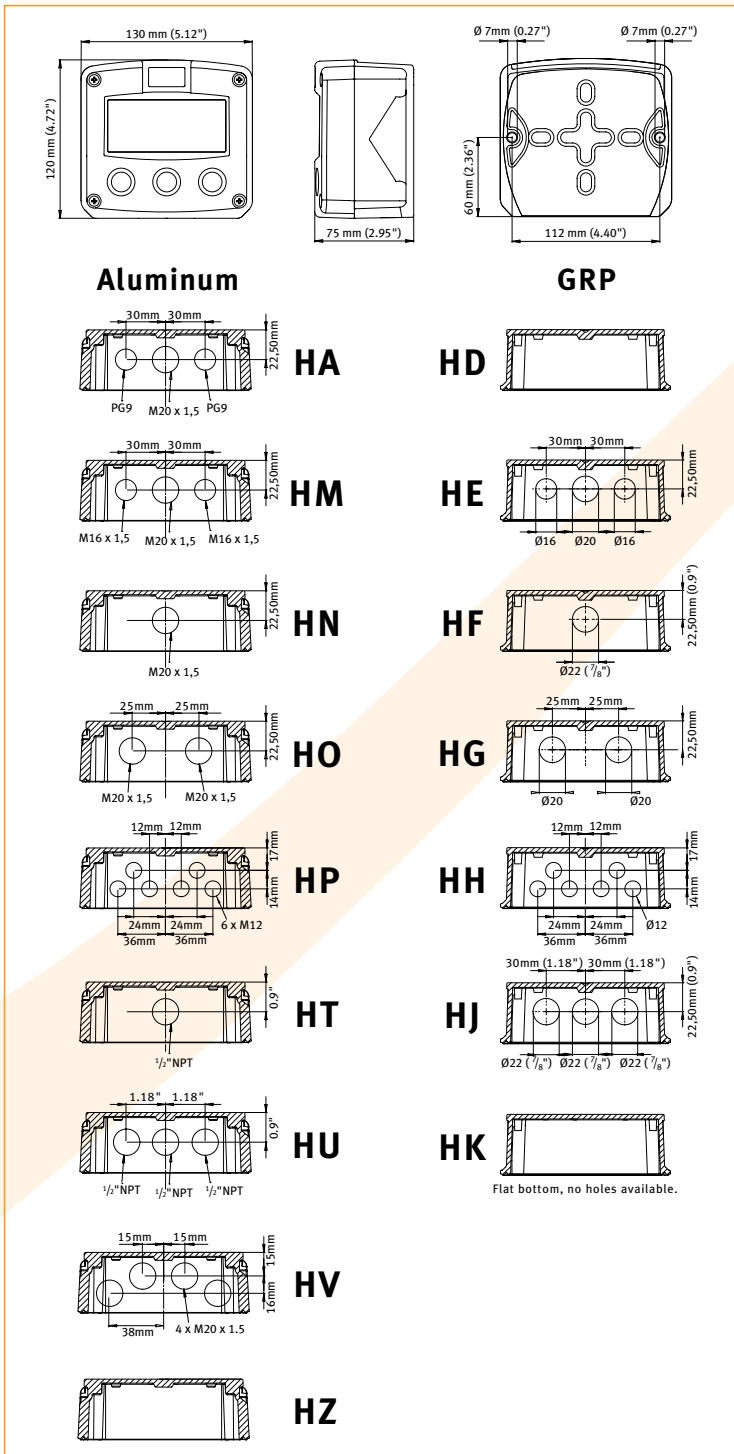
## Dimensions enclosures Aluminum & GRP panel mount enclosure



HB & HC enclosures

panel cut-out

## Aluminum & GRP field / wall mount enclosures



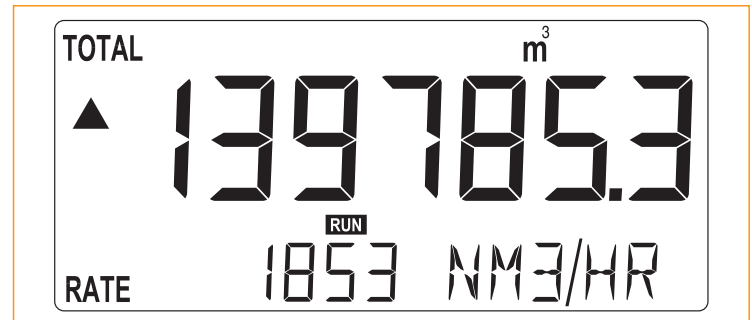
## Terminal connections

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1				
																	COMMUNICATION/BACKLIGHT		TEMPERATURE INPUT		PRESSURE INPUT		TEMPERATURE INPUT / PRESSURE INPUT		FLOWMETER INPUT		ANALOG OUTPUT		POWER SUPPLY					
																	ZB: Backlight option		TP: PT100 2-wire		IA: (0/4-20mA with TA/TU)*		TA: (0/4-20mA*)		P: coil		AI: 4-20mA		PD: 8-24V AC		PX: 8-20V DC			
																	CH: RS485 - 2 wire		TP: PT100 3-wire		IU: 0-10V (with TA/TU)*		TU: 0-10V*		P: need switch/ NPN		AB: 0-20mA		PD: 8-24V DC		PM: 115-230V AC			
																	CI: RS485 - 4 wire		IU: 0-10V (with TA/TU+PF/PM)**		IA: (0/4-20mA)		IA: (0/4-20mA with TP)		P: PNP		AF: 4-20mA		PF: 24V AC		PF: 24V DC			
																	CT: TTL intrinsically Safe		IU: 0-10V (with TA/TU+PF/PM)**		IU: 0-10V		IU: 0-10V (with TP*)		P: active signal		AU: 0-10V		AU: 0-10V		AU: 0-10V			
																	ZB: Backlight option		IU: 0-10V		IU: 0-10V		IU: 0-10V		AU: 0-10V		AU: 0-10V		AU: 0-10V		AU: 0-10V			
																	ZB: Backlight option		IU: 0-10V		IU: 0-10V		IU: 0-10V		AU: 0-10V		AU: 0-10V		AU: 0-10V		AU: 0-10V			

\* Note: If TA, TU is used then IA / IU use terminal 17 - 18 - 19.  
if TP is used then IA / IU use terminal 12 - 13 - 14.  
\*\* Note: If PF / PM and TA / TU is used then IA / IU use terminal 17 only.

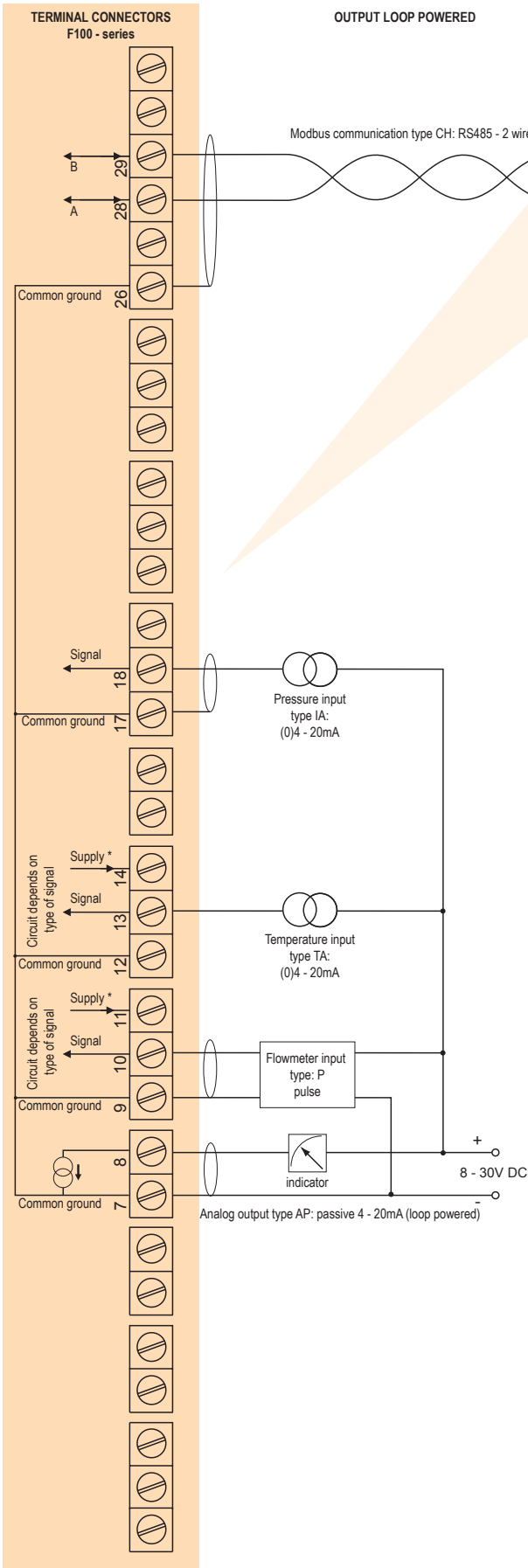
PX: 8-20V DC (terminals GND - 1, 2 are not available)  
PB: PCB battery powered (terminals GND - 1, 2 are not available)  
PI: Pin / loop powered (terminals GND - 1, 2 are not available)

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

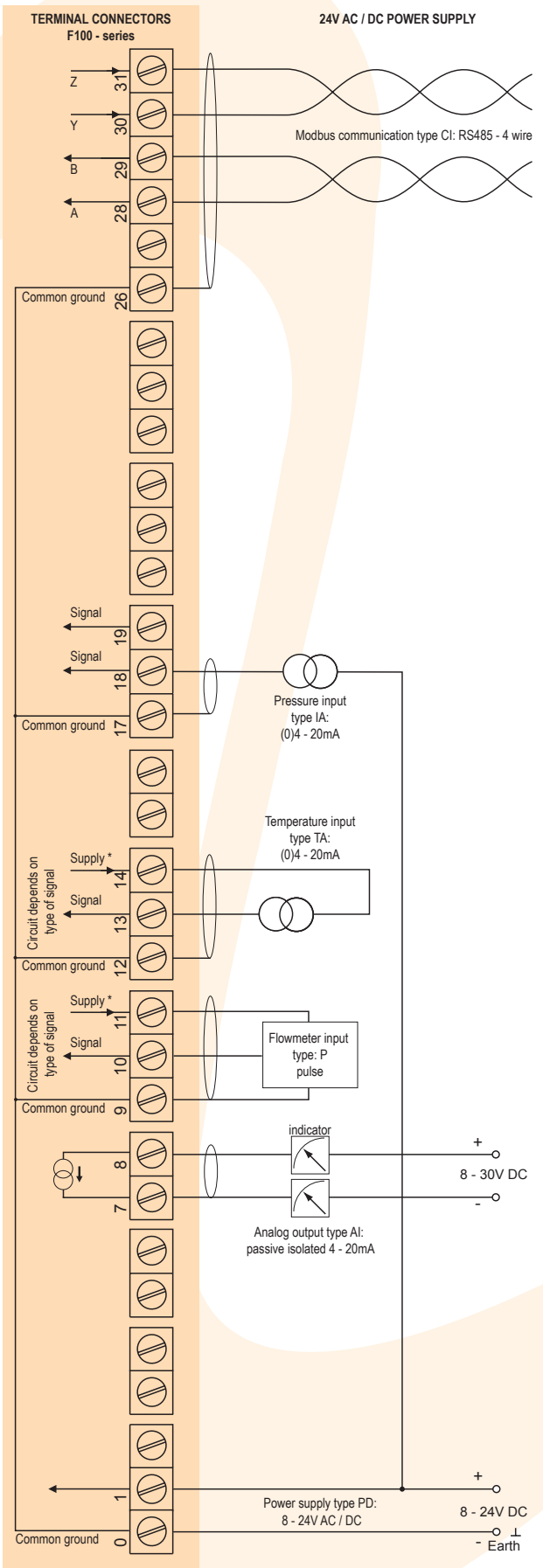


Typical wiring diagram F126-P-AP-CH-EG-IA-PX-TA

Typical wiring diagram F126-P-AI-CI-EG-IA-PD-TA

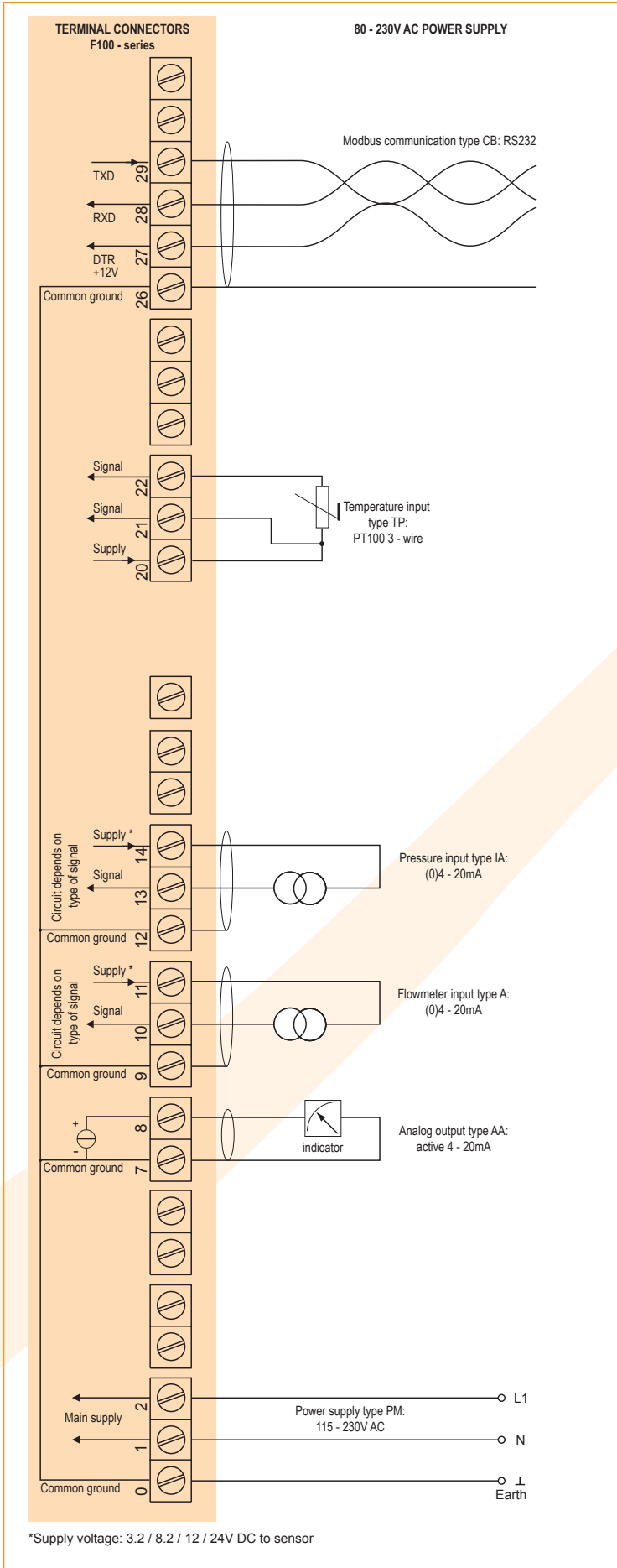


\*Supply voltage: 1.2 / 3.2V DC to sensor

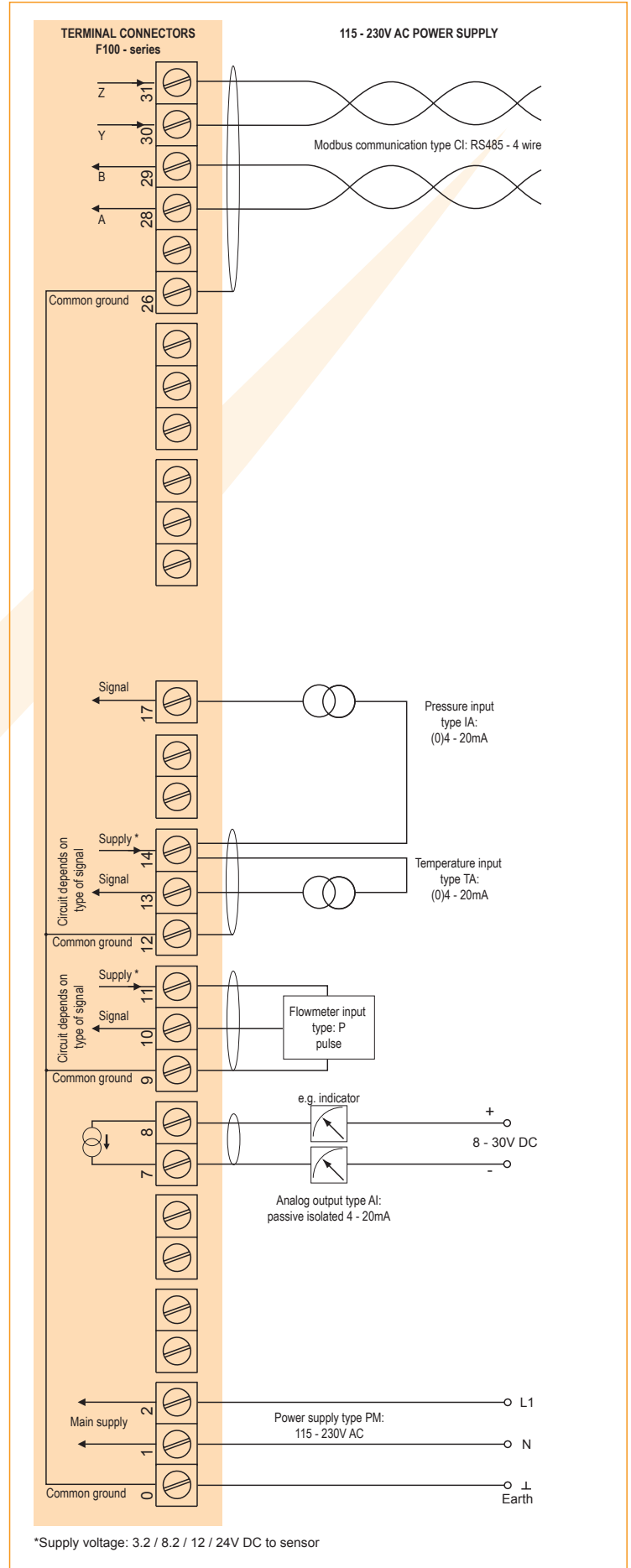


\*Supply voltage: 1.2 / 3.2 / 8.2 / 12 / 24V DC to sensor

Typical wiring diagram F126-A-AA-CB-EG-IA-PM-TP



Typical wiring diagram F126-P-AI-CI-EG-IA-PM-TA





## Hazardous area applications

The F126-EG-XI has been certified according to ATEX and IECEx by DEKRA for use in Intrinsically Safe applications with an ambient temperature of -40°C to +70°C (-40°F to +158°F).

- The ATEX markings for gas and dust applications are:

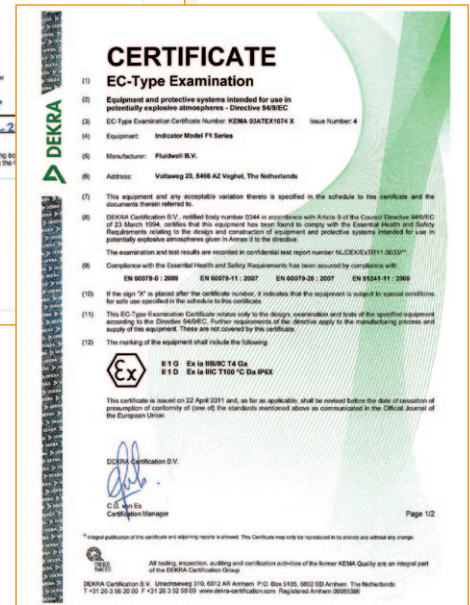
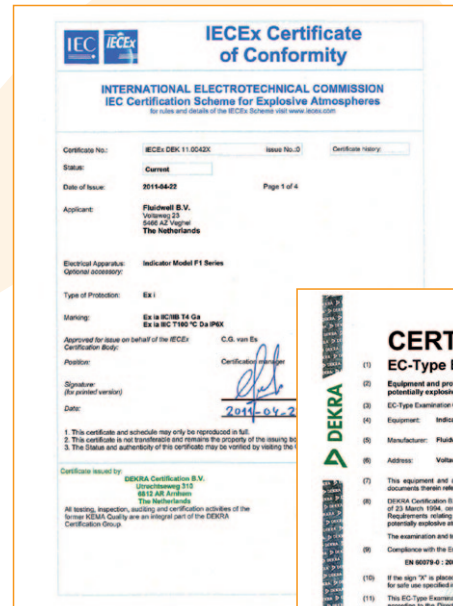
**Ex II 1 G Ex ia IIB/IIC T4 Ga**  
**Ex II 1 D Ex ia IIIC T100 C Da IP6X.**

- The IECEx markings for gas and dust applications are: **Ex ia IIC/IIB T4 Ga** and **Ex ia IIIC T100 C Da IP6X.**

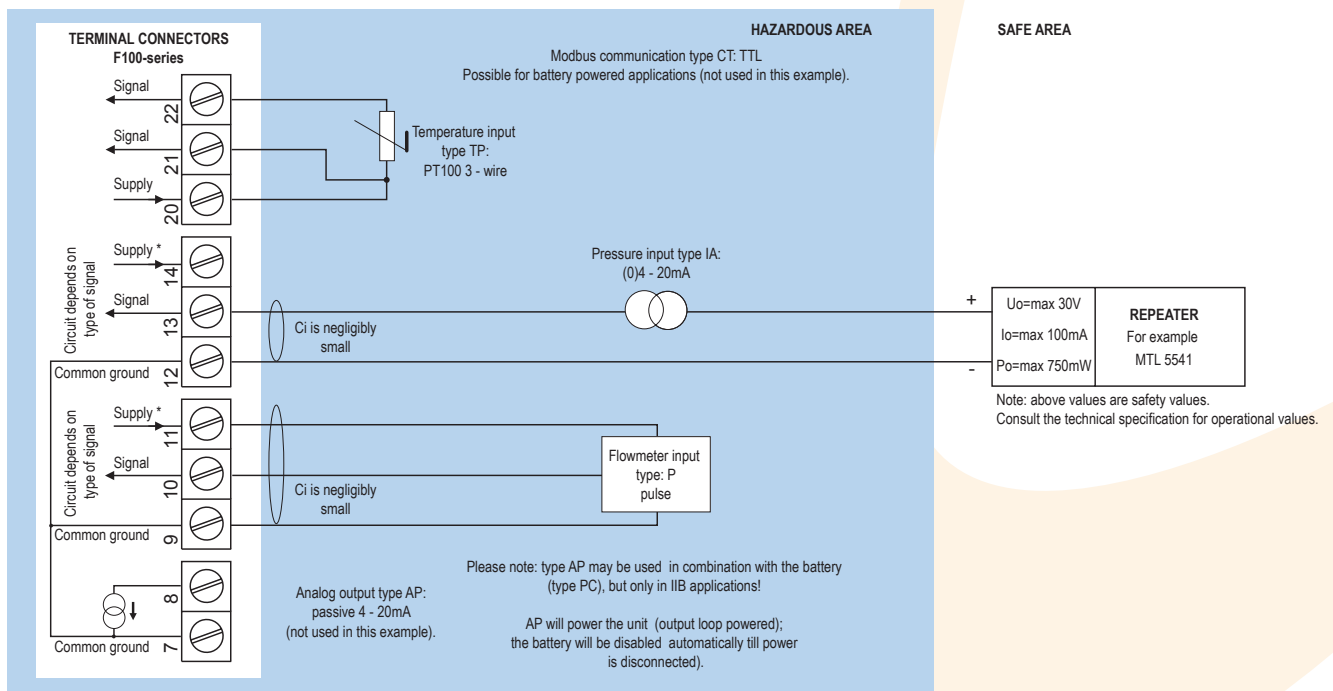
It is allowed to connect up to five barriers in IIB/IIIC applications or one barrier in IIC applications. Consult the certificate for the maximum input and output values of the circuits. Full functionality of the F126-EG remains available, including 4 - 20mA output according to the flow rate and Modbus communication (type CT). Power supply type PD-XI offers a 8.2V sensor supply e.g. for one Namur sensor and two analog sensors. A flame proof enclosure with rating ATEX **Ex II 2 GD EEx d IIB T5** is available as well. Please contact your supplier for further details.

## Certificate of conformity KEMA 03ATEX1074 X

- **IECEx DEK 11.0042X**

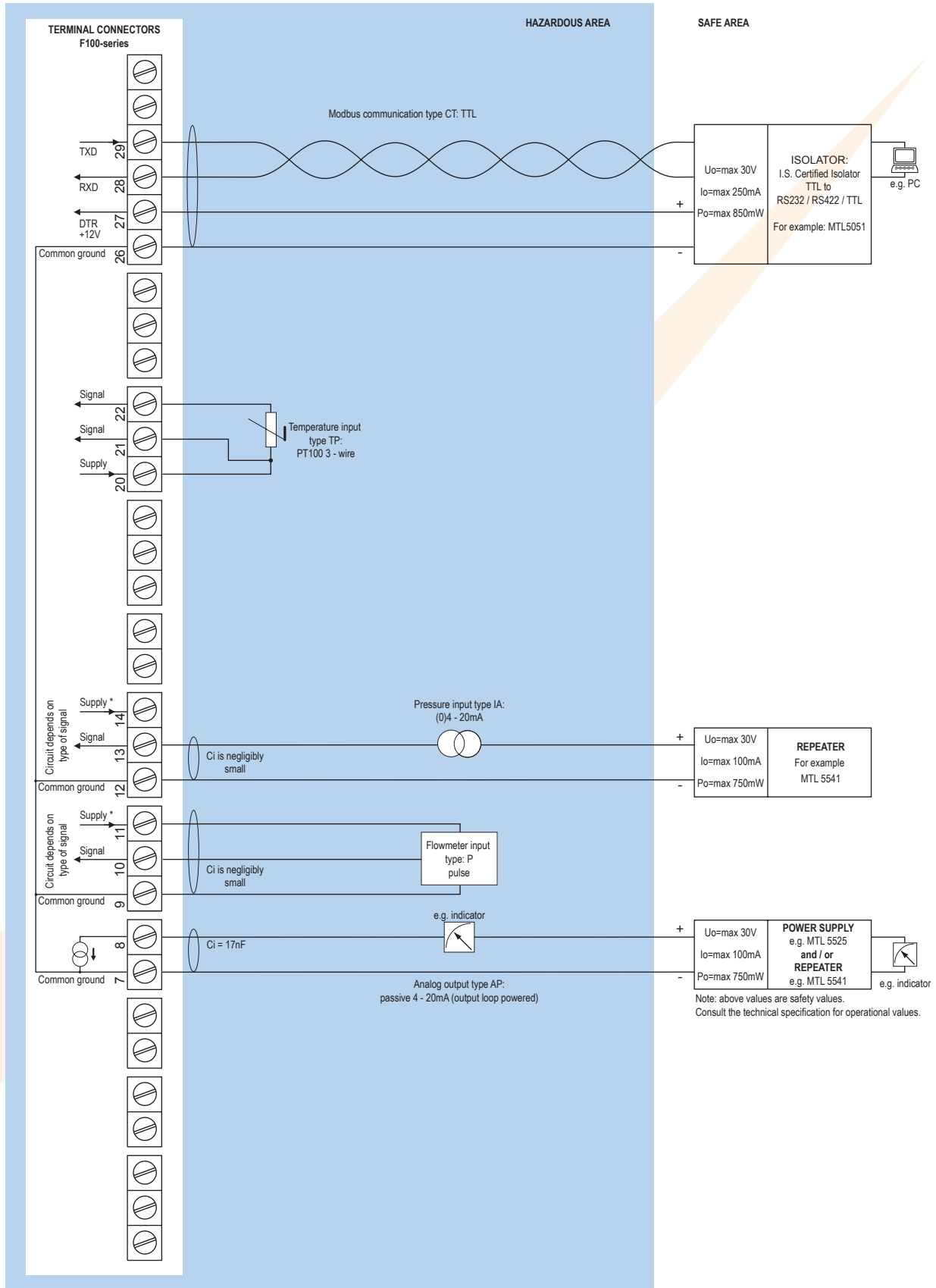


## Configuration example IIB / IIIC and IIC - F126-P-(AP)-(CT)-EG-IA-PC-TP-XI - Battery powered unit



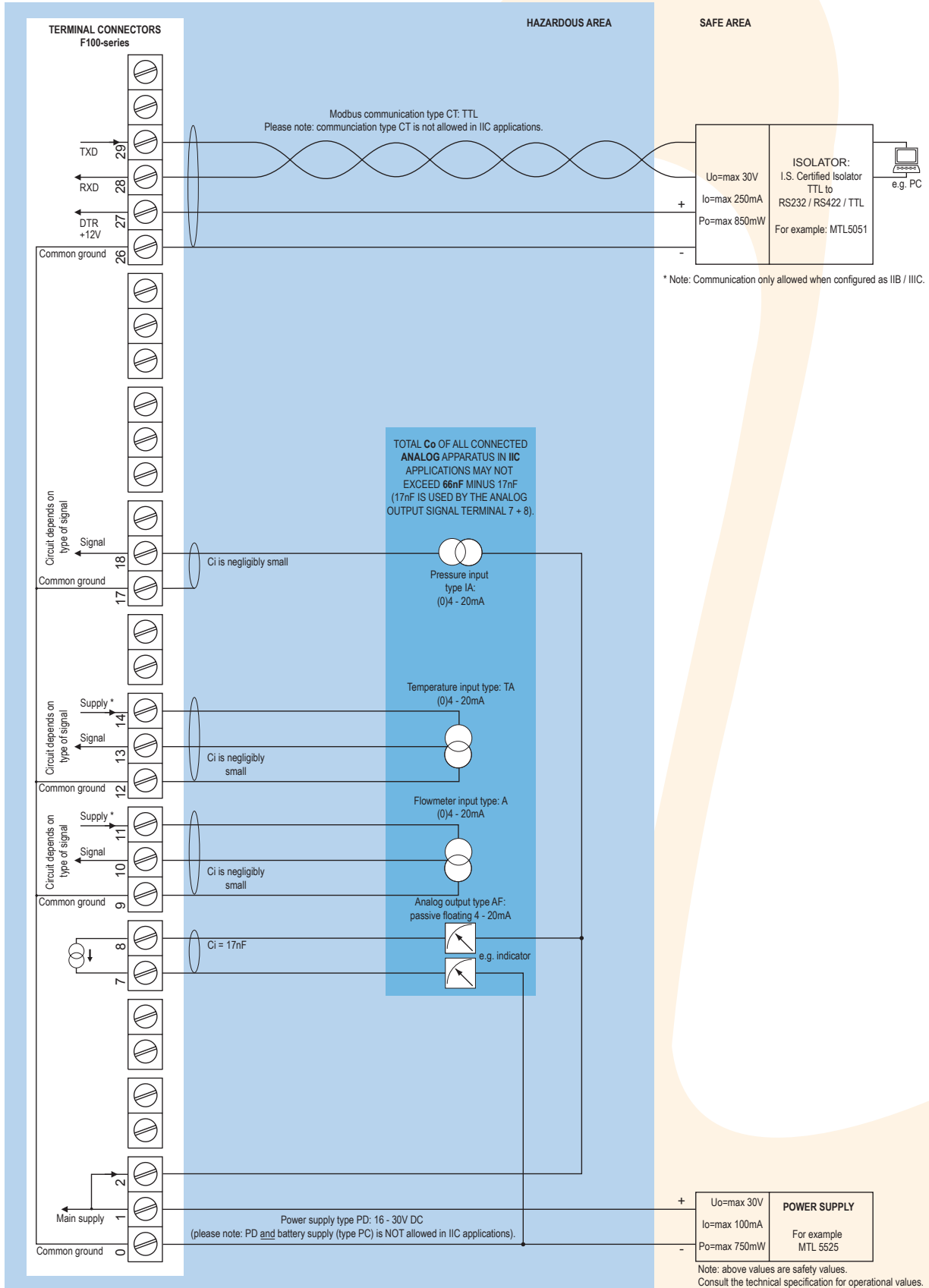
\* Note sensor supply voltage: 1.2V DC for coil sensors or 3.2V DC for other pulse sensors.

## Configuration example IIB / IIIC - F126-P-AP-CT-EG-IA-PX-TP-XI - Output loop powered



\* Note sensor supply voltage: 1.2V DC for coil sensors or 3.2V DC for other pulse sensors.

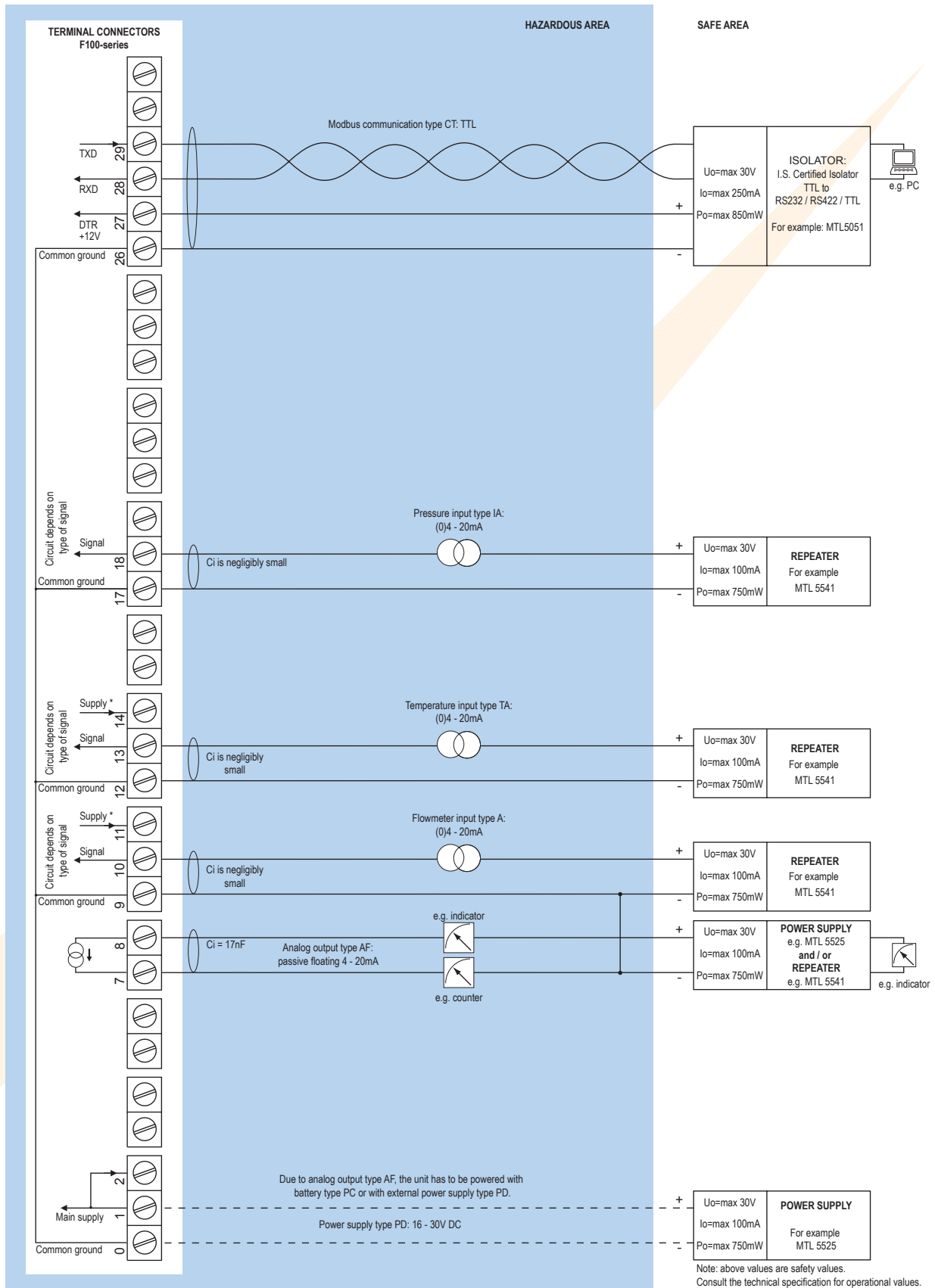
Configuration example IIB / IIIC and IIC - F126-A-AF-(CT)-EG-IA-PD-TA-XI - Power supply 16 - 30V DC



\* Note power supply type PD: the supply voltage to pulse sensors is maximum 8.7V (U<sub>o</sub>=max 8.7V I<sub>o</sub>=max 25mA P<sub>o</sub>=max 150mW) and to analog sensors as connected to terminal 1 (internally linked).



Configuration example IIB / IIIC - F126-A-AF-CT-EG-IA-(PC)-(PD)-TA-XI - Power supply 16 - 30V DC or battery powered



# Technical specification

## General

Display	
Type	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: 8 times/sec. - 1 time/30 secs.
Option ZB	Transflective LCD with green LED backlight. Good readings in full sunlight and darkness.
Note ZB	Only available for safe area applications.

## Operating temperature

Standard unit	-40°C to +80°C (-40°F to +176°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	8 - 24V AC / DC ± 10%. Power consumption max. 10 Watt. Intrinsically Safe: 16 - 30V DC; power consumption max. 0.75 Watt.
Type PF	24V AC / DC ± 10%. Power consumption max. 15 Watt.
Type PL	Input loop powered from sensor signal 4 - 20mA (type "A") - requires types AI or AF (not Xi).
Type PM	115 - 230V AC ± 10%. Power consumption max. 15 Watt.
Type PX	8 - 30V DC. Power consumption max. 0.5 Watt.
Type ZB	12 - 24V DC ± 10% or internally powered with type PD / PF / PM. Power consumption max. 1 Watt.
Note PB/PF/PM	Not available Intrinsically Safe.
Note PF/PM	The total consumption of the sensors and outputs may not exceed 400mA @ 24V.
Note	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	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	1.2 / 3.2 / 8.2 / 12 / 24V DC - max. 50mA @ 24V DC.
Type PD-XI	1.2 / 3.2 / 8.2V DC - max. 7mA @ 8.2V DC and mains power supply voltage (as connected to terminal 1).
Note	In case PD-XI and signal A or U: the sensor supply voltage is according to the power supply voltage connected to terminal 1. The sensor supply of the second analog input is fixed 8.2V DC.
Type PF / PM	1.2 / 3.2 / 8.2 / 12 / 24V DC - max. 400mA @ 24V DC.

## Terminal connections

Type	Removable plug-in terminal strip. Wire max. 1.5mm <sup>2</sup> and 2.5mm <sup>2</sup> .
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## Data protection

Type	EEPROM backup of all settings. Backup of running totals every minute. Data retention at least 10 years.
Pass-code	Configuration settings can be pass-code protected.

## Casing

### General

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

### Aluminum wall / field mount enclosures

General	Die-cast aluminum wall/field mount enclosure IP67 / 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.
Type HO	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 x 1/2" NPT.
Type HV	Cable entry: 4 x M20.
Type HZ	Cable entry: no holes.

### GRP wall / field mount enclosures

General	GRP wall/field mount enclosure IP67 / NEMA 4X, 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: 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.
Type HH	Cable entry: 6 x Ø 12mm.
Type HJ	Cable entry: 3 x Ø 22mm (7/8").
Type HK	Flat bottom, cable entry: no holes.

### 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.
Type HB	Die-cast alu. panel mount enclosure IP65 / NEMA 4X.
Weight	600 gr.
Type HC	GRP panel mount enclosure IP65 / NEMA 4X, UV-resistant and flame retardant.
Weight	450 gr.

### ABS wall / field mount enclosures


General	Silicone free ABS wall/field mount enclosure IP65 with EPDM and PE sealings. UV-resistant polyester keypad (old HD enclosure).
Dimensions	130 x 114 x 71mm (5.1" x 4.5" x 2.8") - W x H x D.
Weight	450 gr.
Type HS	Cable entry: no holes.

## Hazardous area

### Intrinsically Safe (Type XI)

ATEX certification	 II 1 G Ex ia IIB/IIC T4 Ga. II 1 D Ex ia IIIC T100 °C Da IP6X.
IECEx certification	 Ex ia IIC/IIB T4 Ga. Ex ia IIIC T100 °C Da IP6X.
Ambient Ta	-40°C to +70°C (-40°F to +158°F).

### Explosion proof (Type XF)

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

### Environment

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

### Flowmeter

Type P	Coil / sine wave (minimum 20mVpp or 80mVpp - sensitivity selectable), NPN/PNP, open collector, reed-switch, Namur, active pulse signals 8 - 12 and 24V DC.
Frequency	Minimum 0Hz - maximum 7kHz 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.
Type A	(0)4 - 20mA. Analog input signal can be scaled to any desired range within 0 - 20mA.
Type U	0 - 10V DC. Analog input signal can be scaled to any desired range within 0 - 10V DC.
Accuracy	Resolution: 14 bit. Error < 0.025mA / ± 0.125% FS. Low level cut-off programmable.
Span	0.000010 - 9,999,999 with variable decimal position.
Update time	Four times per second.
Voltage drop	Type A: 2.5V @ 20mA.
Load impedance	Type U: 3kΩ.
Relationship	Linear and square root calculation.
Note	For signal type A and U: external power to sensor is required; e.g. type PD.

### Temperature

Accuracy	Resolution: 14 bit. Error < 0.025mA / ± 0.125% FS. Low level cut-off programmable.
Update time	Four times per second.
Type TA	(0)4 - 20mA. Analog input signal can be scaled to any desired range within 0 - 20mA.
Span	0.000010 - 9,999,999 K with variable decimal position.
Offset	0.00 - 99,999.99 K.
Voltage drop	2.5V @ 20mA.
Type TP	2 or 3 wire PT100.
Range	-100°C to +200°C (-148°F to 392°F). Accuracy 3°C (5.4°F).
Option ZV	Range: -200°C to +800°C (-328°F to 1832°F). Accuracy 3°C (5.4°F).
Type TU	0 - 10V DC. Analog input signal can be scaled to any desired range within 0 - 10V DC.
Span	0.000010 - 9,999,999 K with variable decimal position.
Offset	0.00 - 99,999.99 K.
Load impedance	3kΩ.
Note 1	For signal TA and TU: power supply to temperature sensor is required; e.g. PD.

### Pressure

Accuracy	Resolution: 14 bit. Error < 0.025mA / ± 0.125% FS. Low level cut-off programmable.
Update time	Four times per second.
Type IA	(0)4 - 20mA. Analog input signal can be scaled to any desired range within 0 - 20mA.
Span	0.000010 - 9,999,999 with variable decimal position.
Offset	0.000 - 9,999.999.
Voltage drop	2.5V @ 20mA.
Type IU	0 - 10V DC. Analog input signal can be scaled to any desired range within 0 - 10V DC.
Span	0.000010 - 9,999,999 with variable decimal position.
Load impedance	3kΩ.
Note	For signal type IA and IU: external power to sensor required; e.g. PD.

## Signal outputs

### Analog output

Function	Transmitting compensated flow rate.
Accuracy	10 bit. Error < 0.05%. Analog output signal can be scaled to any desired range.
Update time	Ten times per second.
Type AA	Active 4 - 20mA output (requires PD or PM).
Type AB	Active 0 - 20mA output (requires PD or PM).
Type AF	Passive floating 4 - 20mA output for Intrinsically Safe applications (requires XI + PC or PD).
Type AI	Passive galvanically isolated 4 - 20mA output - also available for battery powered models (requires PB, PD, PL or PM).
Type AP	Passive 4 - 20mA output - not isolated. Unit will be loop powered.
Type AU	Active 0 - 10V DC output (requires PD or PM).

### Communication option

Function	Reading display information, reading / writing all configuration settings.
Protocol	Modbus RTU.
Speed	1200 - 2400 - 4800 - 9600 baud.
Addressing	Maximum 255 addresses.
Type CB	RS232
Type CH	RS485 2-wire
Type CI	RS485 4-wire
Type CT	TTL Intrinsically Safe.

## Operational

### Operator functions

Displayed functions	<ul style="list-style-type: none"> <li>• Compensated flow rate.</li> <li>• Compensated total and accumulated total.</li> <li>• Actual line temperature.</li> <li>• Actual line pressure</li> <li>• Total can be reset to zero by pressing the CLEAR-key twice.</li> </ul>
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### Total

Digits	7 digits.
Units	L, m <sup>3</sup> , 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, Nm <sup>3</sup> , NL, ical - no units.
Decimals	0 - 1 - 2 or 3.
Time units	/sec - /min - /hr - /day.

### Line temperature

Digits	6 digits.
Units	°C, °F or K.
Decimals	1.

### Line pressure

Digits	6 digits.
Units	mbar, bar, PSI, no-unit.
Decimals	1.

### Flow equations

Type EG	Corrected gas volume.
Formula	$Q_{\text{normal}} = Q \times \left( \frac{P}{P_{\text{normal}}} \right) \times \left( \frac{T_{\text{normal}}}{T} \right) \times \left( \frac{C_{\text{normal}}}{C} \right)$
Normal press.	Default: 1.013 bar.
Normal temp.	Default: 273.15K (0°C / 32°F)

## Ordering information

Standard configuration: F126-P-AP-CX-EG-HC-IA-OX PX-TA-XX-ZX.

Ordering information:	F126	-	-A	-C	-EG	-H	-I	-OX	-P	-T	-X	-Z
<b>Flowmeter input signal</b>												
A	⊗	(0)4 - 20mA input.										
P	⊗	<b>Pulse input: coil, npn, pnp, namur, reed-switch.</b>										
U	⊗	0 - 10V DC input.										
<b>Analog output signal</b>												
AA		Active 4 - 20mA output - requires PD or PM.										
AB		Active 0 - 20mA output - requires PD or PM.										
AF	⊗	I.S. floating 4 - 20mA output - requires XI + PC or PD.										
AI		Isolated 4 - 20mA output - requires PB, PD, PL or PM.										
AP	⊗	<b>Passive 4 - 20mA output, loop powered unit.</b>										
AU		Active 0 - 10V DC output - requires PD or PM.										
<b>Communication</b>												
CB		Communication RS232 - Modbus RTU.										
CH		Communication RS485 - 2wire - Modbus RTU.										
CI		Communication RS485 - 4 wire - Modbus RTU.										
CT	⊗	Intrinsically Safe TTL - Modbus RTU.										
CX	⊗	<b>No communication.</b>										
<b>Flow equations</b>												
EG	⊗	<b>Corrected gas volume.</b>										
<b>Panel mount enclosures - IP65 / NEMA4X</b>												
HB	⊗	Aluminum enclosure.										
HC	⊗	<b>GRP enclosure.</b>										
<b>GRP field / wall mount enclosures - IP67 / NEMA4X</b>												
HHD	⊗	Cable entry: no holes.										
HE	⊗	Cable entry: 2 x Ø 16mm & 1 x Ø 20mm.										
HF	⊗	Cable entry: 1 x Ø 22mm (7/8").										
HG	⊗	Cable entry: 2 x Ø 20mm.										
HH	⊗	Cable entry: 6 x Ø 12mm.										
HJ	⊗	Cable entry: 3 x Ø 22mm (7/8").										
HK	⊗	Flat bottom, cable entry: no holes.										
<b>Aluminum field / wall mount enclosures - IP67 / NEMA4X</b>												
HA	⊗	Cable entry: 2 x PG9 + 1 x M20.										
HM	⊗	Cable entry: 2 x M16 + 1 x M20.										
HN	⊗	Cable entry: 1 x M20.										
HO	⊗	Cable entry: 2 x M20.										
HP	⊗	Cable entry: 6 x M12.										
HT	⊗	Cable entry: 1 x 1/2"NPT.										
HU	⊗	Cable entry: 3 x 1/2"NPT.										
HV	⊗	Cable entry: 4 x M20.										
HZ	⊗	Cable entry: no holes.										
<b>ABS field / wall mount enclosures - IP65</b>												
HS	⊗	Silicone free ABS field enclosure – Cable entry: no holes (old HD enclosure).										
<b>Pressure input</b>												
IA	⊗	<b>(0)4 - 20mA input.</b>										
IU	⊗	0 - 10V DC input.										
<b>Outputs</b>												
OX	⊗	<b>No output.</b>										
<b>Power supply</b>												
PB		Lithium battery powered.										
PC	⊗	Lithium battery powered - Intrinsically Safe.										
PD	⊗	8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC.										
PF		24V AC/DC + sensor supply.										
PL		Input loop powered from sensor signal type "A" - requires AI or AF and OT (not Xi).										
PM		115 - 230V AC + sensor supply.										
PX	⊗	<b>Basic power supply 8 - 30V DC (no real sensor supply). Unit requires external loop AP.</b>										
<b>Temperature input</b>												
TA	⊗	<b>(0)4 - 20mA input.</b>										
TP	⊗	PT100 input.										
TU	⊗	0 - 10V DC input.										
<b>Hazardous area</b>												
XI	⊗	Intrinsically Safe, according ATEX and IECEx.										
XF		EExd enclosure - 3 keys.										
XX		<b>Safe area only.</b>										
<b>Other options</b>												
ZB		Backlight.										
ZF	⊗	Coil input 10mVpp.										
ZV	⊗	PRTD-range -200°C / +800°C.										
ZX	⊗	<b>No options.</b>										

The bold marked text contains the standard configuration. / ⊗ Available Intrinsically Safe.

Specifications are subject to change without notice.



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