

Configurations & Wiring Combinations for Macnaught FCM Meters and F127 Flow Computer

FCM Wiring Diagram

Pin Number	Signal Name	Wire Colour
1	Vcc	Brown
2	Hall Effect signal 1	White
3	GND	Blue
4	Hall Effect signal 2	Black
5	PT100 temperature probe	Grey
6	PT100 GND	Pink

Use Pin 2 Signal 1. Pin 4 Signal 2 is not in use

Dual FCM with temperature compensation – F127

Sensor A Hall Effect

Blue – 09

White – 10

Brown – 11

Sensor B Hall Effect

Blue – 12

White – 13

Brown – 14

Sensor A Temperature Sensor

Grey – 20

Pink – 22

Sensor B Temperature Sensor

Grey – 23

Pink – 25

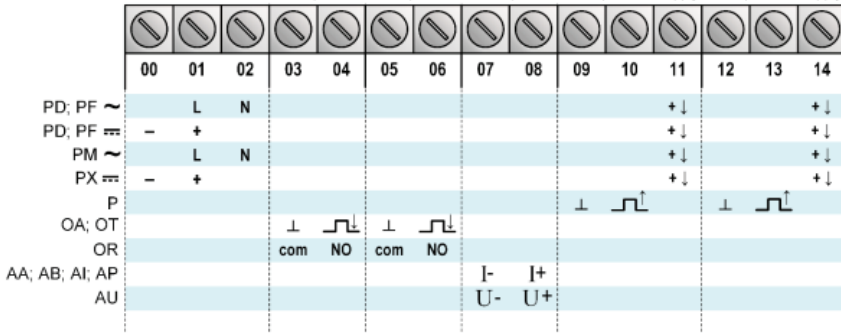
F127 Wiring Diagram

24 VDC Power

Negative – terminal 00

Positive – Terminal 01

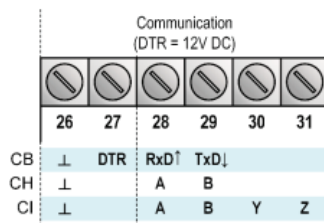
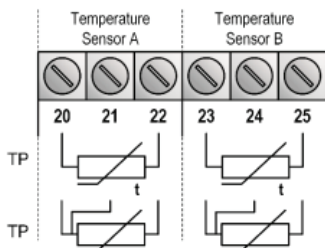
Power supply Digital Output 2 Digital Output 1 Analog Output Sensor A Input Supply Sensor B Input Supply



PB; PC Battery supply: 3.6V ≡ (PX remains available, battery supply operates as back-up power)

PX Sensor supply A (11) and B (14) by software (Coil; Reed) 1.2; 3V ≡
PD; PF; PM Sensor supply A (11) and B (14) by switch 1, 2, 3 and 4 8.2; 12; 24V ≡

Fieldmount: use the PE terminal and the mounting screws/serrated washers.
Panel mount: create a PE terminal by the mounting screws/serrated washers.



Single FCM with temperature compensation – F127

Sensor A Hall Effect

Blue – 09

White – 10

Brown – 11

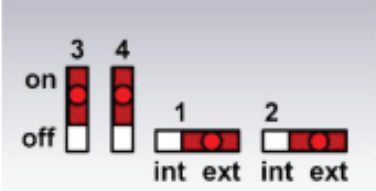
Sensor A Temperature Sensor

Grey – 20

Pink – 22

100 ohm resistor terminals 23 , 25

Correct power selections for 24VDC
Switch 1 and 2 = EXT
Switch 3 and 4 = OFF

Type PD	Power supply in: 8-24V AC / 10-30V DC				
	Sensor A		V _{out} selection		Sensor supply out
 <p>FN-PD-000001-001-EN Switch location (typical)</p>	1	2	3	4	NOTE: Use an AC autotransformer (spartrafo) with galvanic isolation.
	int	-	off	off	Coil 1.2V DC; <1mA Reed 3V DC; <1mA
	ext	-	on on off	on off off	8.2V DC @8V _{in} AC / 10V _{in} DC 12V DC @10V _{in} AC / 14V _{in} DC 24V DC @18V _{in} AC / 26V _{in} DC

Foot Note Configuration Settings.

Menu 7.1 / 7.2 Signal: NPN

Menu 8.2 No. of Wires: 2

Menu 9.2 Thermal Expansion Coefficient – dependent on media.

Enter here the thermal expansion coefficient α for the liquid used. The value to be entered has to be multiplied with 1000. The decimal position is fixed but cannot be shown: x,xxxxxx.

Diesel Fuel should be entered in Menu 92: 0830000

With the default value of 0.000000 the volume correction is disabled