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575F-, FD100X-, and FD200X-2012
Large field displays for process inputs

- **Inputs 0/4..20 mA, 0..5/10 V and potentiometer**
- **Digit sizes 57, 100 and 200 mm, 4, 5 and 6 digits**
- **Display scaling with keys and a minidisplay**
- **2 adjustable alarm limits as an option**
- **Alarm reset, display hold and taring by external contact**
- **Analog ouput 4-20 mA/0-10V as option**
- **Serial RS485 output as an option**
- **Power supply 48..240 VAC or 24 VDC**
- **Case protection IP66**

The large field displays have been designed for targets where visibility is needed up to 100 metres. The displays are suitable for the outdoor use when the vertical sunlight has been limited e.g by using the sun visor above the display.
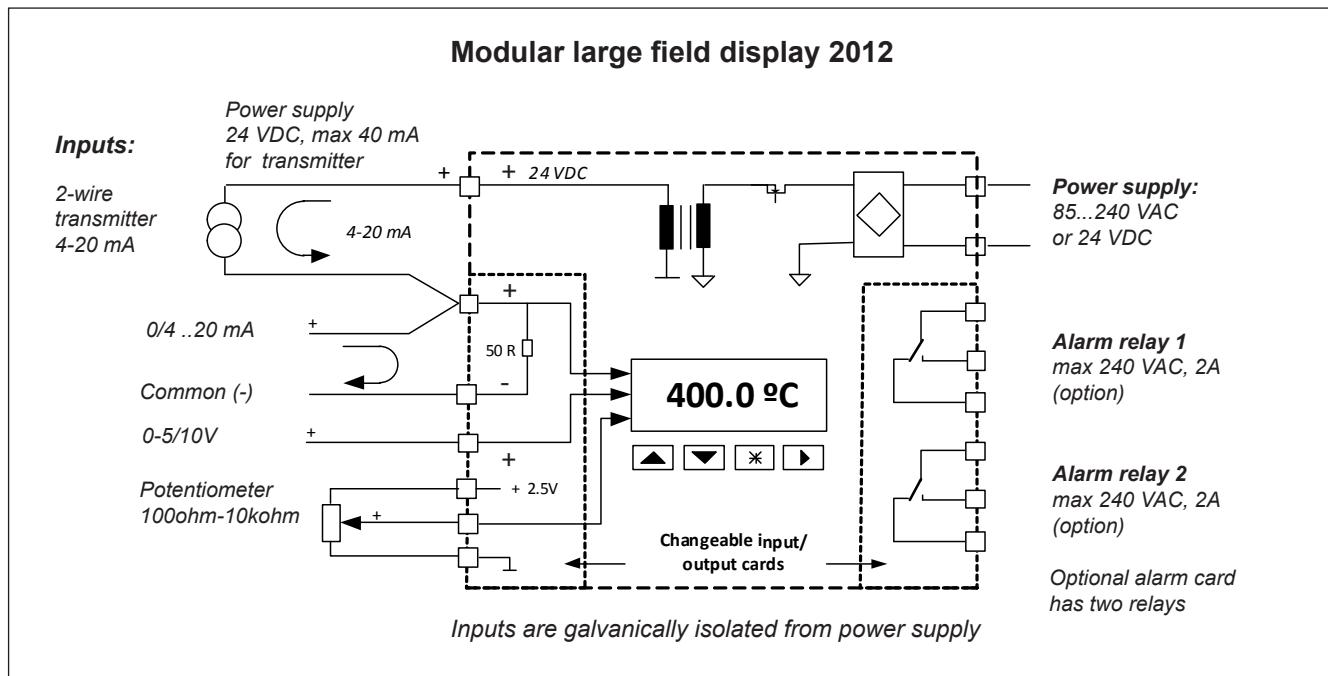
The selection of the sensor type and display scaling is easy with the configuration keys and a 6-digit small display inside the case. Two alarm relays with change-over contacts are available as an option. Alarm limits and hysteresis are freely selectable . The display can be damped by a digital filter if necessary. The number of decimals is selectable.

There are two power supply alternatives: one for line voltage 48..240 VAC and the other 24 VDC, galvanically isolated from input and output. The field displays provide a voltage supply of 24 VDC for sensors.

Analog conversion is done by a 16-bit AD-converter (resolution 1/64000) and the number of measurements is 7 per second. Separate passwords can be set for access to the configuration menu and alarms. Case protection rating is IP66. The displays can also be used outdoors if exposure to direct sun light is prevented by using a sun cover.

Large field displays can easily be modified for other sensor types by only changing the input card for frequency, pulse or serial bus inputs. All panel meter series of 2000 input and output cards are available.

Readability of displays:	Digit size	Distance
	57 mm	20..30 m
	100 mm	40..50 m
	200 mm	100 m

Modular large field display 2012

Inputs are galvanically isolated from power supply

Specifications:

Process inputs: 0..20 mA, 4..20 mA, 0..5 V and 0..10V
Display scaling   on the whole display range
Input resistance   current input 50Ω, voltage input >1 MΩ
Accuracy   0,05 % FS
Linearity   0,01 % FS
Supply for transmitter 24 VDC, max. 40 mA

Potentiometer input: 100Ω -10kΩ
Reference voltage   2,5 V, max load 25 mA
Voltage stability   150 ppm/°C
Accuracy   0,05 % FS

Alarms (optional): 2 alarms with change-over contacts,
relays max 240 VAC, 2 A; hysteresis 0..100%
                       Alarm reset:automatic or manual by
                       external contact or via configuration keys.
                       Reversible function for relays.

General:
AD-conversion   16 bits (1/64000)
Input filter   adjustable digital filter
External contact: display hold, alarm reset or display taring
Configuration   keys and a minidisplay inside the case
Operating temp.   -35..+50ºC
Terminals   removable, wire 2,5 mm²
Power supply   48..240 VAC or 24 VDC ± 15 %
Case protection: IP66
Weight   575F: 3 kg, FD100A4: 5 kg, FD100A6: 8 kg,
                   FD200A4: 14 kg, FD200A4: 18 kg

Models:

Model 575F-   Digit size 57 mm, 5 digits, red LED
                     Dark grey plastic enclosure, IP66 (Nema 4)

Model FD100A4-   Digit size 100 mm, 4 digits, red LED
                     Dark gray steel enclosure, IP66

Model FD100A6-   Digit size 100 mm, 6 digits, red LED
                     Dark gray steel enclosure, IP66

Model FD200A4-   Digit size 200 mm, 4 digits, red LED
                     Dark gray steel enclosure, IP66

Model FD200A6-   Digit size 200 mm, 6 digits, red LED
                     Dark gray steel enclosure, IP66
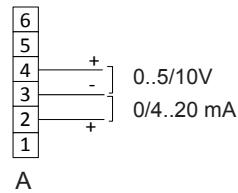
*x=number of digits, please specify in your order*

**How to order: FD100F4-F48/240VAC-2012 - X**
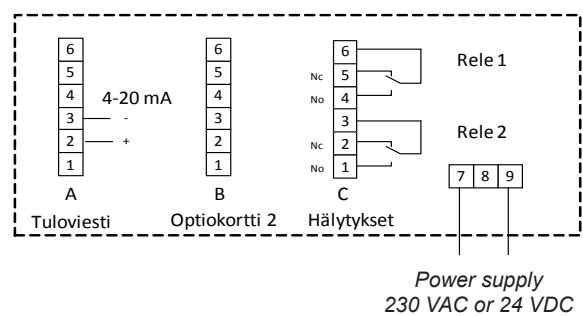
Type
Number of digits
Power supply
230 VAC or 24 VDC
Input card
Option cards (max 2 cards)

Option cards:
Alarm card, 2 relays   REL2
Analog output   OUT
Serial output   RS485

Connections:
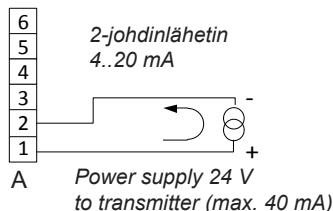
Current/Voltage input

0..5/10V
0/4..20 mA

A

2-wire transmitter

*2-johdinlähetin
4..20 mA*

A

*Power supply 24 V
to transmitter (max. 40 mA)*

Potentiometer

A
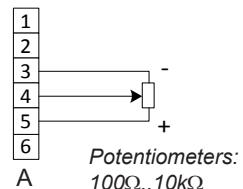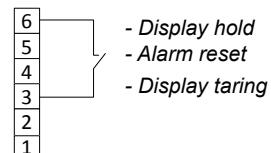
*Potentiometers:
100Ω..10kΩ*
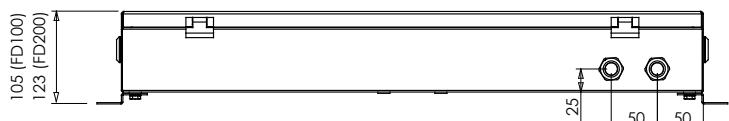
External contact

- *Display hold*
- *Alarm reset*
- *Display taring*

Terninals

4-20 mA

A   B   C
Tuloviesti Optiokortti 2 Hälytykset

Rele 1
Rele 2

7 8 9

*Power supply
230 VAC or 24 VDC*

### FD100A4, FD200A6

*The front cover opens on the quick locks
Glands: 2 x PG 13*

575F5