

1120D Dual channel field display for process inputs and temperature sensors

- 4 digits, 100 mm display
- Microprocessor based user configurable
- Pt100 sensor 3- and 4-wire connection
- Thermocouples
- Process inputs 0/4..20 mA, 0/5..10V
- Power supply 230 VAC



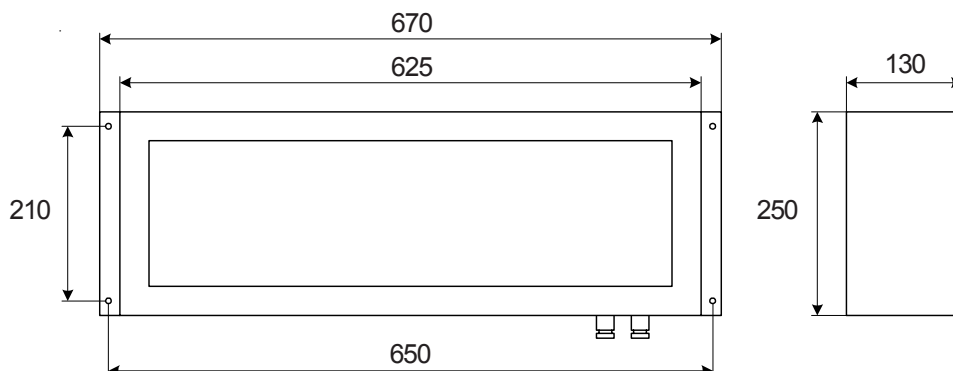
The field display 1120D is designed for temperature sensors and the most common process inputs in applications where a readability of 40 metres is required.

The field display has a bright red LED display which can be seen also outdoors using a sun shade in the enclosure.

Sensor selection and display scaling is easy with the configuration keys inside the case. The number of decimals can be selected. Scanning rate of channels is selectable.

Continuous autocalibration guarantees long term accuracy. When you display big numbers the last digits may be set to indicate zeros (null digits). Analog conversion is done by a 15-bit AD converter (1/32000) and the number of measurements is 10 per second. Case protection rating is IP54/IP65.

Dimensions



Specification:

RTD sensors:

Pt100	3 or 4 wire connection
Temperature range	-200...+700°C
Resolution	0.1 or 1°C
Accuracy	0.05% of FS + 0.1°C (4-wire) 0.05% of FS + 0.2°C(3-wire)
Error between inputs	max. ±0.1°C.
Wire resistance effect	0.005%/ohm (3-wire)

Thermocouples:

K	-100+1250°C
J,J/DIN	-100+900°C
T	-50+350°C
E	-50+350°C
R,S	0+1700°C
B	0+1800°C
W3	0+2300°C
W5	0+2490°C
W	+1000+2300°C
N	-200+1200°C
Accuracy	1.5°C±1 digit
S,R types	2.5°C±1 digit
Wire resistance	< 1000 ohm, no effect
Cold junction effect	< 0.05°C/°C

Current input 0/4..20 mA:

Display range:	-999...9999
Desimal point:	selectable
Input impedance:	50 ohm
Accuracy:	0.05 % of FS.

Voltage inputs:

Scaleable inputs:	-999...9999 0..1V, 0..5V, 1..5V, 0..10 VDC
Input ranges:	20, 50, 500, 1000 mV
Input impedance:	1 Mohm, for 500 and 1000 mV, 10 kohm for 25 and 50 mV.
Decimal point:	selectable
Accuracy:	0.05 % of span

General:

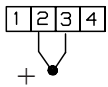
Display	4 digits, bright red LED
nput	2 inputs
Digit size	Height 100 mm
Housing	Black steel case.
Weight	6 kg
Protection	IP54/IP65.
Power supply	230 VAC, 20 VA

How to order

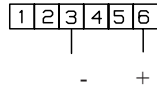
Type 1120D-230VAC

Connections

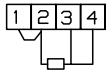
Thermocouple and mV-input



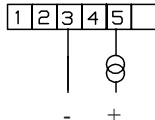
0/1..5/10V



Pt100 3-wire



0/4..20 mA



Pt100 4-wire

