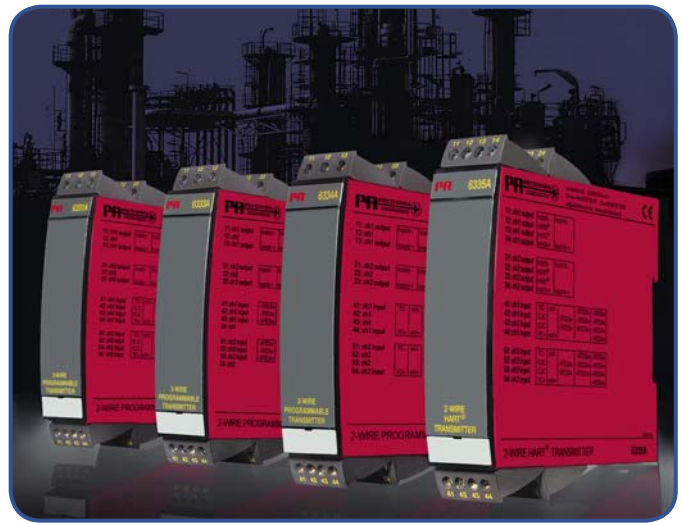


2-WIRE HART® TRANSMITTER



- RTD, TC, Ohm, or mV input
- Extremely high measurement accuracy
- HART® communication
- Galvanic isolation
- 1- or 2-channel version



Application:

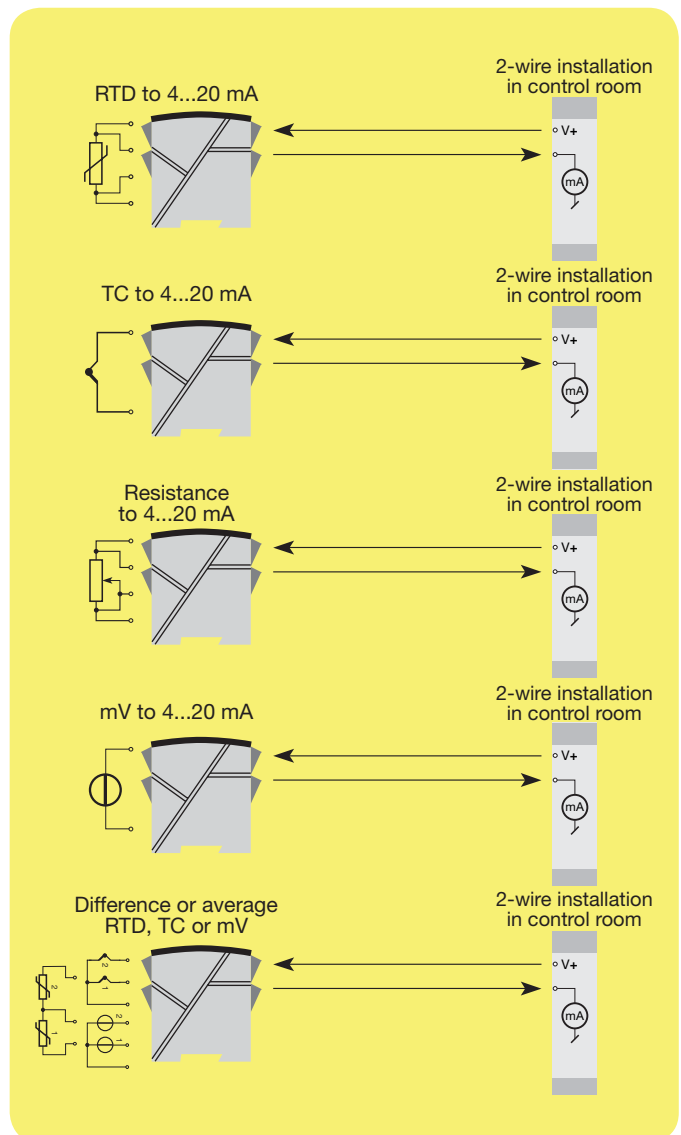
- Linearised temperature measurement with Pt100...Pt1000, Ni100...Ni1000, or TC sensor.
- Difference or average temperature measurement of 2 resistance or TC sensors.
- Conversion of linear resistance variation to a standard analogue current signal, for instance from valves or Ohmic level sensors.
- Amplification of a bipolar mV signal to a standard 4...20 mA current signal.
- Connection of up to 15 channels to a digital 2-wire signal with HART® communication.

Technical characteristics:

- Within a few seconds the user can program PR6335A to measure temperatures within all ranges defined by the norms.
- The RTD and resistance inputs have cable compensation for 2-, 3- and 4-wire connection.
- The 6335A has been designed according to strict safety requirements and is thus suitable for application in SIL 2 installations.
- Continuous check of vital stored data for safety reasons.
- Sensor error detection according to the guidelines in NAMUR NE 89.

Mounting / installation:

- Mounted vertically or horizontally on a DIN rail. As the modules can be mounted without any distance between neighbouring units, up to 84 channels can be mounted per metre.



Order: 6335A

Type	Galvanic isolation	Channels
6335A	1500 VAC : 2	Single : A Double : B

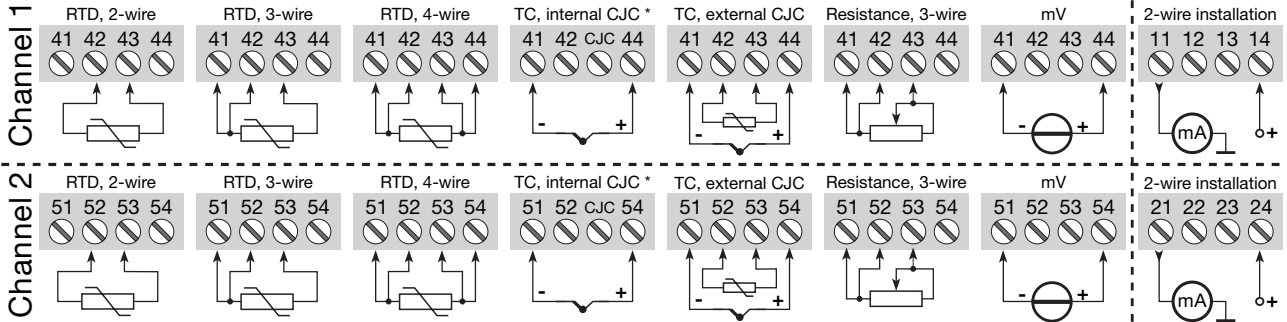
*NB! Please remember to order CJC connectors type 5910 (channel 1) and 5913 (channel 2) TC inputs with an internal CJC.

Connections:

All connection options are shown in the user manual.

Inputs:

Outputs:



Electrical specifications:

Specifications range:

-40°C to +60°C

Common specifications:

- Supply voltage, DC 8.0...35 VDC
- Voltage drop 8.0 VDC
- Isolation voltage, test / operation 1.5 kVAC / 50 VAC
- Isolation voltage, ch. 1 / ch. 2 3.75 kVAC
- Communications interface Loop Link & HART®
- Signal / noise ratio Min. 60 dB
- Response time (programmable) 1...60 s
- Signal dynamics, input 22 bit
- Signal dynamics, output 16 bit
- Calibration temperature 20...28°C
- Accuracy, the greater of general and basic values:

General values		
Input type	Absolute accuracy	Temperature coefficient
All	≤ ±0.05% of span	≤ ±0.005% of span / °C

Basic values		
Input type	Basic accuracy	Temperature coefficient
Pt100 and Pt1000	≤ ±0.1°C	≤ ±0.005°C/°C
Ni100	≤ ±0.2°C	≤ ±0.005°C/°C
Lin. R	≤ ±0.1 Ω	≤ ±5 mΩ/°C
Volt	≤ ±10 μV	≤ ±0.5 μV/°C
TC type:		
E, J, K, L, N, T, U	≤ ±0.5°C	≤ ±0.025°C/°C
TC type:		
B, R, S, W3, W5	≤ ±1°C	≤ ±0.1°C/°C

EMC immunity influence	< ±0.1% of span
Extended EMC immunity:	
NAMUR NE 21, A criterion, burst	< ±1% of span

- Humidity < 95% RH (non-cond.)
- Dimensions (H x W x D) 109 x 23.5 x 104 mm
- Protection degree IP20
- Weight (1 / 2 channels) 145 / 185 g

Electrical specifications, input:

Max. offset 50% of selec. max. value

RTD and linear resistance input:

RTD type	Min. value	Max. value	Min. span	Standard
Pt100	-200°C	+850°C	10°C	IEC 60751
Ni100	-60°C	+250°C	10°C	DIN 43760
Lin. R	0 Ω	7000 Ω	25 Ω	-----

- Cable resistance per wire (max.) 5 Ω
- Sensor current Nom. 0.2 mA

TC input:

Type	Min. temperature	Max. temperature	Min. span	Standard
B	+400°C	+1820°C	100°C	IEC584
E	-100°C	+1000°C	50°C	IEC584
J	-100°C	+1200°C	50°C	IEC584
K	-180°C	+1372°C	50°C	IEC584
L	-100°C	+900°C	50°C	DIN 43710
N	-180°C	+1300°C	50°C	IEC584
R	-50°C	+1760°C	100°C	IEC584
S	-50°C	+1760°C	100°C	IEC584
T	-200°C	+400°C	50°C	IEC584
U	-200°C	+600°C	50°C	DIN 43710
W3	0°C	+2300°C	100°C	ASTM E988-90
W5	0°C	+2300°C	100°C	ASTM E988-90

Cold junction compensation < ±1.0°C

Voltage input:

- Measurement range -800...+800 mV
- Min. span 2.5 mV
- Input resistance 10 MΩ

Current output:

- Signal range 4...20 mA
- Min. signal range 16 mA
- Updating time 440 ms
- Load resistance ≤ (V_{supply} - 8) / 0.023 [Ω]

Sensor error detection:

- Programmable 3.5...23 mA
- NAMUR NE43 Upscale 23 mA
- NAMUR NE43 Downscale 3.5 mA

GOST R approval:

VNIIM, Cert. No. See homepage

Observed authority requirements: Standard:

EMC 2004/108/EC EN 61326-1

Of span = Of the presently selected range