



Signal controller

2286

- Multiple functions
- Programmable from front
- 3-digit LED display
- Analog or Pt100 input
- Relay outputs
- Max. 50% offset





Advanced features

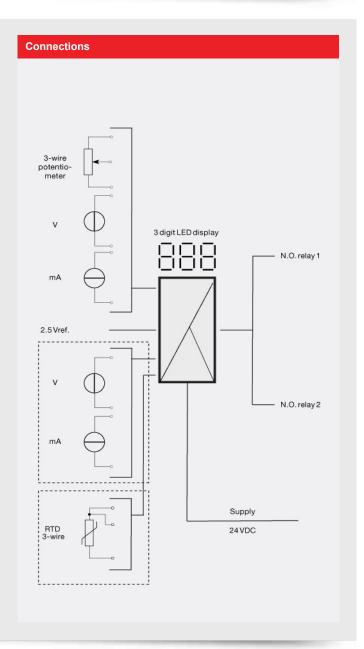
· Programmed via the user interface which consists of a 3-digit display and 3 function keys in the front panel.

Application

- · PID on/off controller, PI step controller or 3-band controller with analog or Pt100 input.
- · As trip amplifier with setpoint adjustment through external current / voltage signal with neutral zone surrounding the setpoint.

Technical characteristics

- The A and B channels can be freely programmed via the front keys and JP1 and JP2 to current in the range 0...20 mA or voltage in the range 0...10 VDC.
- Linearized Pt100 temperature input in the range -99...+850°C with 3-wire connection.
- PID on/off controller with accurate setting of the regulation parameters XP (proportional band), TI (integrating time) and TD (differentiating time).
- Functions include PI step and-band controller, dl/dt function and comparator or trip amplifier with an external setpoint.
- 2 relay outputs with a make contact connected to a common
- · Relay outputs can be installed in PELV/SELV circuits.
- Mounting for a standard 11-pole socket which can be adapted for DIN rail or plate use with PR's 7023 adaptor and 7024 mounting keying.



Order:

Туре	Input	
2286	Voltage / current	: A
	Temperature	: B

Environmental Conditions

Specifications range	-20°C to +60°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP50

Mechanical specifications

Dimensions (HxWxD)	80.5 x 35.5 x 84.5 mm (D is
,	without pins)
Weight approx	140 a

Common specifications

Supply

Isolation voltage

Isolation voltage, test /	
working	3.75 kVAC / 250 VAC
PELV/SELV	IEC 61140

Response time

Response time	
Response time	< 60 ms
	0.147
Max. required power	
Internal consumption	2.5 W
Signal / noise ratio	Min. 60 dB
Signal dynamics, input	20 bit
Effect of supply voltage change	< ±0.002% of span / %V
Proportional band (XP)	0.01999%
Gain, 1/XP =	0.110000
Integrating time (TI)	0999 s
Differentiating time (TD)	0999 s
Neutral zone (nEU)	099.9 %
Pulse time (TP)	0.01400 s
Min. pulse time (TP)	0.0110 s
Auxiliary voltages: Reference	
voltage	2.5 VDC ±0.5% / 15 mA
Temperature coefficient	< ±0.01% of span / °C
Linearity error	
EMC immunity influence	< ±0.5%

Input specifications

Common input specifications

Current input

Measurement range	020 mA
Min. measurement range (span)	4 mA
Input resistance	50 Ω

Voltage input

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Measurement range	010 VDC
Min. measurement range (span)	200 mV
Input resistance	Nom 10 MO

RTD input

RTD type	Pt100	(2286B)
Cable resistance per wire		
(max.)	25 Ω	
Sensor current	Nom.	1.25 mA

Output specifications

Relay output

Relay functions	Setnoint
Max. voltage	
Max. current	
Max. AC power	500 VA
Max. load at 24 VDC	1 A
*of span	= of the presently selected range

Observed authority requirements

EMC	2014/30/EU
LVD	2014/35/EU

Approvals

EAC...... TR-CU 020/2011