PR 2281 PR electronics 24VDC 4-20mA 0-10V Ramp Generator Datasheet

SKU: 816760022335

Category: CNC, Robotics & PLC Boards

Price: **$485.71**

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Product Page:
https://www.equipspares.com/product/pr-2281-pr-electronics-24vdc-4-20ma-0-10v-ramp-generator

Product Description

PR electronics 2281 24 VDC 0/4-20 mA 0-10 VDC 11-pole socket ramp generator is a microprocessor-controlled device featuring a 3-digit LED display and three front-panel function keys for local configuration. The unit provides high-precision analog outputs including 0...20 mA and 0...10 VDC, driven by six digital inputs configurable for NPN or PNP logic with an 8 VDC trigger level. The internal architecture utilizes digital filtering for contact-bounce elimination with selectable time constants of 0.5 ms or 10 ms. The hardware is housed in a compact enclosure designed for standard 11-pole relay socket mounting and includes EEPROM memory for parameter retention during power loss.

2281 Specifications
Model: 2281
Brand: PR electronics
Product Category: Ramp Generator
Supply Voltage: 24 VDC
Digital Inputs: 6 (NPN or PNP)
Input Trigger Level: 8 VDC
Input Resistance: 3.5 kΩ
Input Load Current: 6.9 mA
Analog Output (Current): 0/4...20 mA or 0/2...10 mA
Analog Output (Voltage): 0/0.2...1 VDC or 0/2...10 VDC

Max Output Load: 600 Ω / 12 VDC
Ramp Time Range: 0.1 to 999,999 s
Display Type: 3-digit LED
User Interface: 3 function keys
Mounting Type: 11-pole relay socket
Input Filter Time: > 0.5 ms or > 10 ms
Reset Filter Time: > 30 ms
Operating Temperature: -20 to 60 °C
Calibration Temperature: 20 to 28 °C
Relative Humidity: < 95 % RH
Protection Degree: IP 50 (front panel)
Internal Memory: EEPROM
Galvanic Isolation: Yes

2281 Applications
Primary applications include integration into industrial control panels for time-controlled signal ramping and motor speed setpoint management. Deployed within automated manufacturing systems to convert digital pulse sequences from 2-phase encoders into proportional analog position signals. Utilized in process control loops requiring precise signal isolation and ramp-up/ramp-down functionality for soft-start operations.

Supplemental Images


PR electronics
DK Side 1
2281
Ramp Generat
No. 2281V102-IN
From ser. no. 96
SIGNALS THE BEST
PR electronics
Lerbakken 10
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CE
1 : output gnd
2 : output voltage +
3 : output current +
4 : up count (active high)
5 : up count (active low)
6 : down count (active high)
7 : down count (active low)
8 : reset (active low)
9 : supply +24 VDC
10 : supply gnd
11 : reset (active high)
connect pin 2 and 3 for voltage output
22815102
RAMP GENERATOR
2281