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PRECISION DC-AMPLIFIER MODEL CL 100P

FEATURES:

- High Accuracy
- High Protection Standard IP65
- Rugged Design
- Operating Temperature -25 °C to +65 °C
- Supply 24 V DC, or 230 V AC – four wire cable
- Automatic Compensation of Cable Resistance



The high-precision DC-amplifier CL 100P is designed for use with strain gauge sensors with 120 Ω to 1200 Ω full bridge circuits. It is particularly suitable for hostile environment applications in industry when a high degree of protection against dust, humidity and vibration is required.

TECHNICAL SPECIFICATIONS:

Gain*	V/V	50÷1000
Signal Bandwidth*	Hz	10÷200
Continuously Adjustable Gain*	%	±5 (±1 ÷ ±10)%
Excitation Voltage for Signal Source	V	5 or 10
Min. Signal Source Resistance	Ω	80 with 10 V supply voltage 40 with 5 V supply voltage
Max. Connection Cable Length (to signal source)	m	30
Long Term Stability of Output Signal	%/month	≤0,1
Nonlinearity	%	≤0,05
Temperature Stability of Gain	%/10°C	≤0,05
Temperature Stability of Output Signal	%/10°C	≤0,05
Operating Temperature Range	°C	-25 to +65
Input Resistance	GΩ	symmetric ≥10
Asymmetric Output:		
Voltage	V	±10 max.
Output Resistance	Ω	1
Max. Current	mA	20
Current	mA	0÷20 or 4÷20
Max. Load Resistance	Ω	500
Supply:		
Voltage	V AC	230 / 50Hz
Current – continuous use	A	0,1
Weight	kg	1,95

*Factory adjusted according to customer specification.

DIMENSIONS:

