

CPL300

MULTI CHANNEL PROCESS INDICATOR



OVERVIEW

CPI300 is a versatile process indicator for measuring voltage / current inputs. These indicators come standard with 2 indicating modes which are independently programmable.

Typical application are for level measurement. Mode 1 can be programmed to indicate level and mode 2 to indicate volume. Mode 1 can be programmed for linear conversion while mode 2 can be programmed for lookup table conversion.

2 Channel indicators are available which can display variables in the differential mode as well as individual modes. These indicators can be used for a wide variety of process like level, pressure, temperature etc.

Low voltage drop models are also available for connecting multiple indicators to the process loop. All indicators can provide up to 500mA pf power at 18/24V for sensors.

Optional features include relay output and RS485/MODBUS outputs. A total of 4 set-points can be programmed to operate 2 relays max. RS485 with MODBUS interface available for connection to PLC or computers.

FEATURES

- +/- 0.05% Accuracy
- 2 wire / 3 wire compatible
- 2 Indicating modes (independently programmable)
- 1 Channel / 2 Channel
- Linear / Square root / Lookup Table linearization
- 4 ½ Digit LED Display
- 4 Programmable Set-points
- 1 or 2 Relay outputs
- 500mA Sensor power supply from instrument



SPECIFICATIONS

Input	4-20mA / 0-20mA / 0-25V / 0-5V (Factory configurable only)
Number of Channels	1, 2 (Optional)
Indication	4 ½ Digit LED
Indication Modes	2 Programmable indication modes
Voltage Drop	2.5V Maximum on Current input models
Input Impedance	10K Ohms on Voltage input models
Resolution	13 Bits
Accuracy	± 0.1% of span, ± 1 count
Temperature variations	0.1 Count / C typical (0.2 Count / C max.)
Operating Temperature	0° to 50 °C
Storage Temperature	-40° – 85°C
Conversion Modes	Linear / Square root / Lookup table linearization
Relay Output	Relay output for 1 or 2 relays 220V 5A contact rating
Optional Output	RS485 / MODBUS
Power Requirements	
Voltage	220V ~ AC ±15% or 8-24V AC/DC (Factory configurable)
Frequency	50/60Hz
Power Consumption	Less than 1 Watt
Optional Features	
Number of Channels	2 Max.
Sensor Supply	24V DC 500mA Max. for 2 & 3 wire sensors
Retransmission Output	4-20mA Optically isolated



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