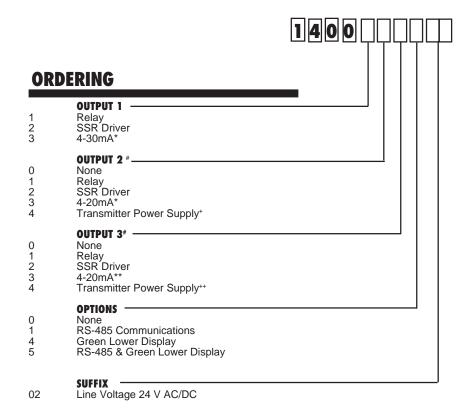
MIC 1400 MICROBASED 1/4 DIN CONTROLLER



- * For control output only.
 ** For retransmision only.
- ⁺ Cannot be included if output 3=4.
- ** Cannot be included if output 2=4.
- # NOTE: OUTPUT 2, when programmed as an ALARM, IS programmed as ALARM 2 ONLY. OUTPUT 3, when programmed as an ALARM, IS programmed as ALARM 1 ONLY.



WARRANTY

This instrument is backed by the Partlow comprehensive 2 year warranty. A complete warranty statement is published in the back of the product instruction manual. If you have further questions about warranties, please contact the Partlow factory.

ORDERING INFORMATION

For pricing and additional ordering information, refer to Form 3265, Electronic Price Book, Page 13.



DESCRIPTION

The Partlow MIC 1400 line of 1/4 DIN controllers offers a variety of enhancements for improved indication and control of a number of process variables. Its innovative design combines the ease of use common to the 1/16th and 1/8 DIN Partlow controllers as well as sharing the same basic operator interface as the popular MIC 2000 Series.

The latest technology offers shorter package depth, fewer circuit cards and faster sampling of the input values. Also wide range power supplies combined with a optional low voltage supply, will aid in meeting EEC directives.

For quick computer configuration, each MIC 1400 has a built in Configuration socket that combined with our exclusive configurator cable and software will make any standard IBM compatable PC a simple and easy MIC 1400 configurator.

CONTROLLERS

SPECIFICATIONS

Input

Thermocouple types J, K, T, R, S, B and L

100 ohm (.00385 ohm/ohm/C) RTD Volts

0 to 5VDC, 1 to 5VDC, 0 to 10VDC and

2 to 10 VDC

Millivolts 0 to 50mVDC and 10 to 50mVDC Milliamps 0 to 20mADC and 4 to 20mADC

Displays <u>CLL</u> or <u>cHH</u> for thermocouple or RTD inputs and sensor break, SnSr. Sensor Fault Detection

Control outputs set to OFF (0% power); alarms operate as if the process variable has gone over-range (TC) and under-range

(RTD & V, mV, mA)

Outputs

SPDT Relay

2.0 A Resistive at 120/240 VAC

SSR Driver >4.2 VDC into 1K ohm minimum

Current Output 0-20mADC into 500 ohmmaximum

4-20mADC into 500 ohms maximum

Volts DC Output 0-10VDC 500 ohm minimum

0-5VDC 500 ohm minimum

Display

Digital Display Four 7 segment LEDs, top .53" high,

bottom .39" high

Status Indicators Individual LED indictors for Output 1.

Output 2, Manual, Alarm and

Pre or Auto Tune

Alarm Adjustment

Process Alarm - Input Span **Deviation Alarm** - Input Span **Deviation Band Alarm** 0 to Input Span

Control Adjustments

0.1% to 10.0% of Input Span On/Off Hysteresis Proportional Band 0% to 999.9% of Input Span

(0%=On/Off)

Manual Reset 0% to 100% of Output Power Auto Reset Off to 99 mins. 59 sec per repeat

0 sec to 99 mins. 59 sec Rate

Cycle Time .5, 1, 2, 4, 8, 16, 32, 64, 128, 256, and

512 seconds

Spread -20% to +20% of PropBand 1 +

PropBand 2

Performance

Measurement Accuracy 0.25% of span, – 1 LSD at 20 deg C

ambient

Note: Reduced performance with Type "B" thermocouple between

0.01% of span /deg C change in

100-600C (212-1112F)

Ambient Temperature Error

Linearization Accuracy

(TC and RTD)

Better than - 0.2 deg C any point, any 0.1 deg C range (- 0.05 deg C typical). Better than - 0.5 deg C any

point, any 1 deg C range Better than - 0.7 deg C

Cold Junction Compensation

Scan Rate

Noise Rejection Common mode: >120dB at 50/60Hz

4 per second

giving negligible effect at up to 264V

50/60Hz

Series Mode: >500% of span (at 50/60

Hz) causes negligible effect 90 to 264VAC 50/60 Hz

Line Voltage 0 to 55 C Operating Temperature

Storage Temperature -20 to 80 C Humidity

20 to 95% non condensing Source Resistance 1000 ohm maximum (thermocouple) Lead Resistance 50 ohm per lead maximum balanced

(Pt100)

1/4 DIN front panel, 3.94" deep **Dimensions**

Weight 16 ounces maximum

Front Panel Sealing IP65 Power Comsumption 4 Watts

Digital Communications Type

Character Format

Address

Bit Rate

User configurable to 1200, 2400,

RS-485 serial communication port:

4800, 9600

ASCII

User configurable 1 to 32