

# 1490 5 Digit 1/8 DIN Panel Indicator



## Features

- Universal Input
- 2 Alarm Outputs
- Retransmission
- Min/max Value Hold
- Modbus Communications
- Transmitter Power supply

## Description

The 1490 is a Universal Input Indicator with single or dual configurable alarms, optional linear retransmission of Process Variable, Transmitter power supply option as well as optional Modbus communications.

## Technical Data

### FEATURES

<b>Output Configuration</b>	1 or 2 relay outputs, with optional linear retransmission
<b>Alarms</b>	2 process high / low with adjustable hysteresis
<b>Viewable Values</b>	Process variable, maximum value, minimum value
<b>Human Interface</b>	3 button operation, 5 digit 13mm high display red, 2 alarm indicator

### INPUT

<b>Thermocouple</b>	J, K, C, R, S, T, B, L, N & PtRh20%vsPtRh40%.
<b>RTD</b>	3 Wire PT100, 50Ω per lead maximum (balanced)
<b>Strain Gauge</b>	350 Ohm Strain Gauge
Bridge Connection:	4 or 6 wire (6 to use internal shunt cal switch)
Bridge Excitation:	10V ±7%
Bridge Sensitivity:	1.4 to 4 mV/V
Input Signal Span:	- 25% to +125% of full scale (approximately -10 mV to +50 mV)

Calibration: Internal switch between CAL2 & CAL1 terminals. External resistor only.

Shunt Value: From 40% to 100%

<b>DC Linear</b>	0 to 20mA, 4 to 20mA, 0 to 50mV, 10 to 50mV, 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V.
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Scaleable: -1999 to 99999, with adjustable decimal point

<b>Impedance</b>	>10MΩ for Thermocouple and mV ranges, 47KΩ for V ranges and 5Ω for mA ranges
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<b>Accuracy</b>	±0.1% of input range ±1 LSD (T/C CJC better than 1°C)
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<b>Sampling</b>	10 per second, 16 bit resolution approximately (100ms sample time)
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<b>Sensor Break Detection</b>	<2 seconds (except zero based DC ranges), high alarms activate for T/C, RTD and mV ranges, low alarms activate for mA or V ranges
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### OUTPUTS & OPTIONS

<b>Alarm Relays</b>	Contacts Single Relay SPDT 2 Amp resistive at 240V AC, >500,000 operations. Latching or non-latching. Dual Relay SPST 2 Amp resistive at 240V >200,000 operations. Reinforced safety isolation from inputs and other outputs.
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### DC Linear Retransmit Outputs

0 to 20mA, 4 to 20mA into 500Ω max, 0 to 10V, 2 to 10V, 0 to 5V into 500Ω min. 15 3/4 bit (1 part in 52K) and updated at about 65ms intervals. (130ms settling time) Stability: ±76ppm

### Transmitter Power Supply

Output 24VDC @ 60mA

### Serial Communications Logic Input

2 Wire RS485, 1200 to 19200 Baud, Modbus External reset of latched relay, stored alarm 1 elapsed time, stored min/max PV values or initiate tare function. Action occurs on high (3 to 5VDC) to low <0.8VDC, or Open to Closed transition.

### OPERATING & ENVIRONMENTAL

<b>Temperature &amp; RH</b>	0 to 55°C (-20 to 80°C storage), 20% to 95% RH non-condensing
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<b>Power Supply</b>	110 to 240V 50/60Hz 7.5VA (optional 20 to 48V AC 7.5VA/22 to 65V DC 5 watts)
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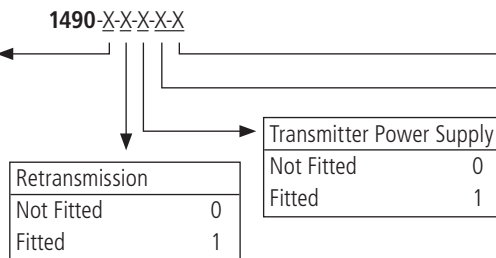
<b>Front Panel Protection Standards</b>	IEC IP66 (Behind panel protection is IP20) CE. Pollution Degree 2, Installation Category II "UL Listed".
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## Ordering Guide

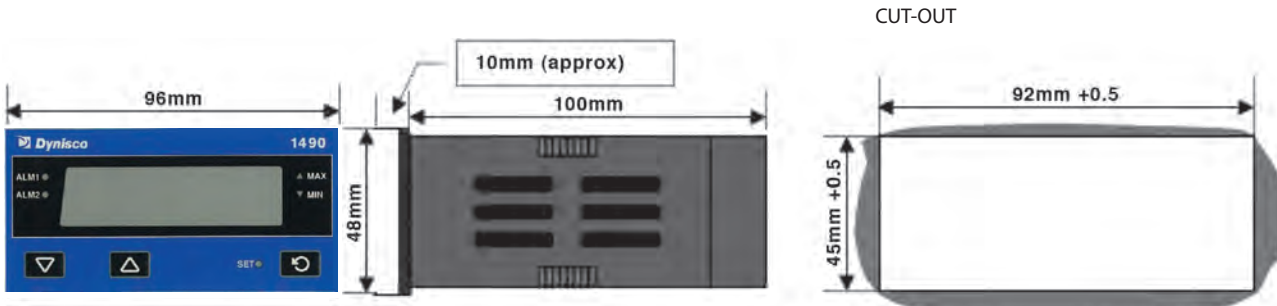
Number of Alarms	
Single Alarm	1
*Dual Alarm Common Gnd	2
Dual Alarm Independent Gnd	4.

\* Required when Transmitter Power Supply is fitted



Supply Voltage	
110-240V AC Mains	0
24V AC/DC	1

## Dimensions



### WIRING LABEL/REAR TERMINALS

