

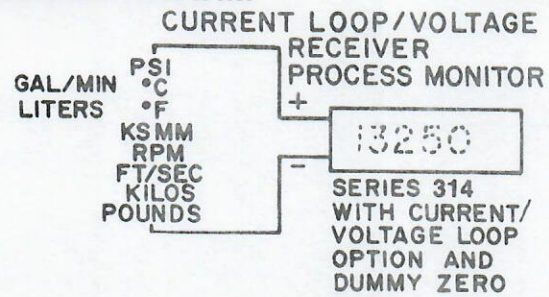
# MODEL 314

## HI-REL $\pm 3\frac{1}{2}$ DIGIT CURRENT LOOP INDICATOR WITH OVER/UNDER ALARM



### FEATURES

- 8 Ranges
- Display Flashes For Under/Over signal (Adjustable)
- Optional Dummy Zero
- Conditioned Analog Output



### DESCRIPTION

Whether your transducer gives you voltage or current outputs this unique instrument not only converts the signal to any engineering unit such as KG/SQ CM, RPM, MT/SEC, LT/MIN, and many others (including English system), but tells you when something is wrong with the process or transducer. If the transducer fails, there is an open connection or leakage in the system, the display will flash due to the saturation of its internal voltage comparator that has been factory calibrated to 10% of minimum input signal (i.e. 3.6mA for a 4-20mA Input). When the signal exceeds 200% of the selected full scale (i.e. 36mA for a 4-20mA Input), the display will flash indicating an unusual condition in the system. Of course, since these limits are adjustable other limits may be either factory or field changed.

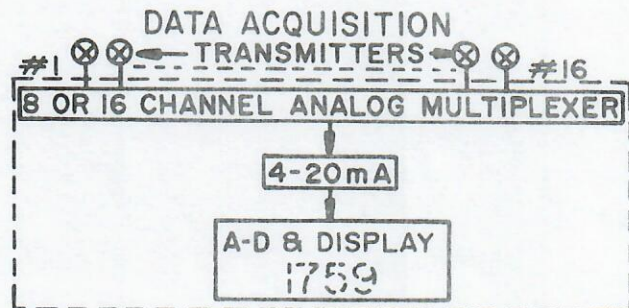
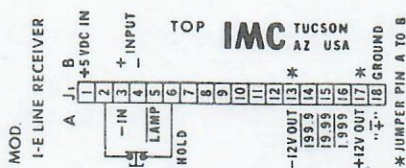
Scaled and linearized output of the Input Signal is available at rear connector. For extended display resolution, option 1 of the display can be ordered. This adds a dummy zero on the extreme right (LSD), for instance, a reading of 1,520 pounds would lead 15,200 pounds with 10 pounds resolution.

### SPECIFICATIONS @25°C

Analog Output	1mV per LSD 1mA max.
Resolution	$\pm 0.05\%$
Accuracy	$\pm 0.05\% \pm 1$ Digit
Offset Control	$\pm 500$ Counts (internal)
Span (F.S.) Control	$\pm 700$ Counts (Front Panel)
Normal Mode Rejection	100dB @ 50/60 Hz
Common Mode Rejection	90dB @ 50/60 Hz
Common Mode Voltage	$\pm 10$ Vdc or P/P
Power Consumption	5Vdc $\pm 5\%$ @ 350mA
Zero	Automatic /Manual
Display	0.5" RED LED
Overrange	Display Flashes
Overload	200% of F.S.
Operating Temperature	-10 to +60°C
Storage Temperature	-20 to +80°C
Temperature Coefficient	50 PPM

### MINIMUM DESCRIPTION

1B +5Vdc; 18B 5V Return (Digital Ground); 3B + Signal Input; 4B - Signal Input (max. CMV to Digital Ground is 10Vdc from 3B or 4B); 1A conditioned and Linearized Analog Output 0-2Vdc @ 1mA max. with respect to Pin 2A (Signal Common); 13A connect to 13B (-12V) 14A-16A Decimal Point connect to 18B for desired D.P.; 17A connect to 17B (+12V). 12A Dummy Zero.



SERIES 314 WITH BUILT-IN ANALOG MULTIPLEXER AND CURRENT LOOP/VOLTAGE RECEIVER

### ORDERING INFORMATION

MODEL 314 X X X

Option	Input	Impedance	†Readout
0	4-20mAdc	50 OHMS	000-1000
1	1-5mAdc	200 OHMS	000-1000
*2	0-20mAdc	50 OHMS	000-1000
3	10-50mAdc	20 OHMS	000-1000
*4	0-5Vdc	100K OHMS	000-1000
5	1-5Vdc	100K OHMS	000-1000
6	0-10Vdc	100K OHMS	000-1000
*7	-10V to +10Vdc	100K OHMS	000-1000

Power
0 ... 5Vdc Req'd
1 ... 115/230 Vac

Display
0 ... Standard
1 ... Dummy Zero

\*Note: These ranges do not offer "Below Range" flashing display.

†Note: Standard Display is 000 to 1000 counts for specified input. Specify your calibration if other than standard.