

IE Model 300 Electronic Indicating Totalizer

GENERAL INSTRUMENTATION

Description

The IE Model 300 Electronic Indicating Totalizer is a microprocessor based instrument designed to be used in conjunction with primary flow sensors which have a pulse, contact closure, magnetic pick-off or 4-20mA current output. The main function of the unit is to provide flow indication and totalization. The Model 300 factors input signals into engineering units and provides a direct display of flow rate as well as total flow. Selection of counter configuration (reset to zero and inventory totalization), as well as input scaling, decimal locations, are all entered on the sealed front key pad. The Model 300 is available in two basic configurations. One is a panel mounted version and another is an explosion proof version.



IE MODEL 300 ELECTRONIC INDICATING TOTALIZER

Design Features

- Micro-processor based
- Flow Rate Indication
- Totalization
- Moisture resistant sealed front panel
- 16x2 alphanumeric dot matrix LCD display
- Unscaled and factored outputs
- Non-volatile memory
- AC/DC power option available

Specifications

Caution: Do not operate this instrument in excess of the specifications listed below. Failure to heed warning may result in serious personal injury or damage to equipment.

Accuracy

Total Display: + 1 count Rate Display: 3 significant digits; resolution 2% or better Mode of Operation Flow rate indication and Totalization Flow rate indication and cumulative totalization Totalization and cumulative totalization Temperature Operating Temperature: -18 to 65oC Power Requirements 24 Vdc 230/115 Vac + 15%, 50/60 Hz Instrumen

Materials Of Construction

Explosion Proof Housing - Cast Aluminum Weather Proof Housing - Sheet Steel Front Panel Controls Indication: 16x2 alphanumeric dot matrix LCD display Data entry: 4 button membrane keypad Scaling: Scaling factor is an eight digit number entered in by scientific notation. The incoming pulses are multiplied by this scaling factor to obtain the engineering quantity for display. Input Signals Pulse: 0-10 kHz; minimum pulse width 30 microseconds. VL: 0 to 10 Vdc. VH: 3 to 28 Vdc Current: 4-20mA current loop or 4-20mA current input Pick-off: Magnetic pickoff input (20mV to 2V) Output Signals Power: 12 Vdc + 10% regulated, 100 mA (AC/DC Versions only). 24Vdc for current loop (4-20mA) TTL/Open Collector scaled/unscaled. Open collector output sinks up to 100 mA at 28 V. 4-20mA corresponding to flow rate Specifications subject to change without notice.

IE MODEL 300 INDICATING TOTALIZER MODEL CODING									
MODEL	DESCRIPTION								
0300-	MICRO PROCESSOR BASED INDICATING TOTALIZER								
	CODE	LINE VOLTAGE							
	1	115 Vac							
	2	230 Vac							
	3	24 Vdc							
	CODE	INPUT SIGNAL							
	A	4-20 MA							
	B	PULSE							
	C	PICK-OFF							
	D	CURRENT LOOP (24V INTEGRAL)							
	CODE	OUTPUTS							
	0	NONE							
	1	4-20 MA							
	2	OPEN COLLECTOR PULSE							
	3	0-5 V TTL PULSE							
	4	UNSCALED OPEN COLLECTOR PULSE							
	5	UNSCALED 5 V TTL PULSE							
	6	4-20 MA & SCALED OPEN COLLECTOR PULSE							
	7	4-20 MA & UNSCALED OPEN COLLECTOR PULSE							
	8	4-20 MA & SCALED 5 V TTL PULSE							
	9	4-20 MA & UNSCALED 5 V TTL PULSE							
	CODE	OPTIONS							
	A	NONE							
	B	RS 232 C CONNECTIVITY (WEATHER PROOF ONLY).							
	CODE	BATCHING COUNTER WEATHER PROOF ONLY							
	0	NONE							
	1	SINGLE STAGE (WEATHER PROOF ONLY)							
	2	TWO STAGE (WEATHER PROOF ONLY)							
	3	DIGITAL CONTROL VALVE (WEATHER PROOF ONLY)							
	CODE	PRIMARY INSTRUMENT POWER							
	A	NONE							
	B	12V DC							
	CODE	ALARM TYPE							
	0	NONE							
	1	SINGLE SPDT (WEATHER PROOF ONLY)							
	2	DOUBLE SPDT (WEATHER PROOF ONLY)							
	CODE	ENCLOSURE TYPE							
	A	WEATHER PROOF							
	B	EXPLOSION PROOF							

0300- 2 A 1 A 0 A 0 A TYPICAL MODEL NUMBER

April 04, 2000.