

INTEGRAL SIGNAL CONDITIONERS

For Frequency, Voltage, or Current Output

FLSC-28 Series



- ✓ Up to 0.05% Accuracy
- ✓ Choose from Six Output Types
- ✓ CMOS/TTL Compatible
- ✓ Adjustable Low Level Signal Filter for Noise Rejection
- ✓ Explosion-Resistant Heads
- ✓ For FTB-100 and FTB-200 Turbine Flowmeters
- ✓ Integral Signal Conditioners Available for 4 to 20 mA, 0-5 V, and Factored Pulse Outputs



FLSC-18B shown actual size.

OMEGA® High Accuracy Integral Signal Conditioners are designed for direct mounting onto OMEGA® FTB-100 and 200 Series Turbine Meters. The input circuitry of the signal conditioners has been designed to receive and condition low level turbine meter signals while rejecting unwanted noise and spurious signals. A signal threshold

control is provided which allows the user to set the input sensitivity above the ambient noise level, thereby eliminating any false signal on the output. Signal conditioners are available that can provide 4 to 20 mA, 0 to 5 V, and scaled frequency pulse outputs that run on unregulated power

supplies. Other units which run off 115 Vac provide both an unsealed pulse output and a 0 to 5 V or 4 to 20 mA output. A zero and a span potentiometer allow for simple field adjustment of the analog outputs from the signal conditioners.

Signal Conditioner (Enclosure Mounted) Only

| To Order | | | |
|-----------|--|---------------------|---------------------|
| Model No. | Output | Input Power | Accuracy Full Scale |
| FLSC-18B | 4 to 20 mA | 8 to 40 Vdc @30 mA | ±.05% |
| FLSC-34 | 4 to 20 mA with unsealed pulse | 115 Vac 50/60 Hz | ±0.1% |
| FLSC-28 | 0 to 5 V | 10 to 40 Vdc @10 mA | ±0.5% |
| FLSC-35B | 0 to 5 V with unsealed pulse | 115 Vac 50/60 Hz | ±0.1% |
| FLSC-51 | scaled square wave pulse | 8 to 35 Vdc @10 mA | ±1% |
| FLSC-51B | Same as FLSC-51, except with 50 ms pulse duration for use with electromechanical totalizers (FLSC-51 has 2 ms duration for use with digital electronics) | | |

Signal conditioners are installed at no charge when purchased with turbine meter.

NOTE: The use of explosion-proof heads does not imply that complete assembly is either explosion-proof or intrinsically safe. It is the user's responsibility to determine the suitability of materials for a given installation.

Comes complete with operator's manual.

Ordering Examples: SYS/FTB-101/FLSC-18B, turbine and signal conditioner system. Visit us online for more details on SYS/FTB-201/FLSC-34, turbine and signal conditioner.

SPECIFICATIONS

Accuracy: See "To Order" box

Temperature Range: 0 to 70°C (32 to 158°F)

Pulse Output: TTL/CMOS; open collector for FLSC-51 B

Input Frequency: 10-1000 Hz, 28 mV P-P; 1000-2500 Hz, 70 mV P-P. Can be used with any OMEGA® Turbine Meter

Maximum Input: 120 V RMS

Electrical Connections: Screw terminals

Maximum Lead Length: 305 m (1000') of 24 gage copper wire for pulse or mA; 30 m (100') for 0 to 5 V output.

Weight: 2.3 kg (5 lb)

| Compatible Meters | Signal Conditioners |
|----------------------------|-------------------------------------|
| DPF50, DPF60, DPF300, DPI8 | FLSC-34, FLSC-28, FLSC-35B, FLSC-51 |