

SIGNAL CONDITIONERS FOR TURBINE METERS

Suitable for Direct Mounting onto FTB-900 and FTB9500 Series Flowmeters

ALL MODELS AVAILABLE FOR FAST DELIVERY!

All units are suitable for direct mounting onto the following turbines. (Refer to pages in this section)
 FTB-900 (page F-51),
 FTB-930 (page F-54),
 FTB9500 (page F-93),
 FTB-950 (pages F-53) and FTB-970A/980A (page F-55)



0 to 5/0 to 10 Vdc Output

The FLSC-61 is a 3-wire analog transmitter designed to linearly convert a frequency input to an equivalent voltage output whose level is switch selectable @ 0 to 5V/0 to 10V. A full scale frequency range of 75 Hz to 10 kHz is jumper-selectable. The span adjustment establishes the frequency point at which the full scale voltage output (5 or 10V) is achieved. A sensitivity adjustment permits the FLSC-61 to discriminate between a signal input and noise.

SPECIFICATIONS

Temperature:
 Operating: -40 to 85°C (-40 to 185°F)
 Storage: -65 to 125°C (-85 to 257°F)
Input Voltage: 12 to 28 Vdc @ 50 mA max
Signal Input: Frequency 0 to 10 kHz; amplitude 50 mV to 35V sine or square-wave; impedance 10 kΩ
Analog Output: 0V @ 0 Hz, 5 or 10V @ desired full scale frequency
Full Scale Range: 75 Hz to 10 kHz, selectable
Response Time: 95% of change in 1 second
Linearity: 0.3% FS
Temperature Coefficient: <2% of rdg over entire temperature range
Minimum Load Resistance: 250 Ω
Enclosure: FM Approved; Class I, Groups, B, C, D; Class II, Groups E, F, G
Weight: 771 g (1.7 lb)

4 to 20 mA Output

(Not Shown)
 The FLSC-62A is a 2-wire loop-powered analog transmitter designed to linearly convert a frequency input to an equivalent 4 to 20 mA current output.

A full scale frequency range of 100 Hz to 10 kHz is switch selectable. The span adjustment establishes the frequency point at which a 20 mA output is achieved. A sensitivity adjustment permits the FLSC-62A to discriminate between signal input and noise.

SPECIFICATIONS

Input Voltage:
 Minimum: 7V + (20 mA x RL)
 Maximum: 28V + (4 mA x RL)
Analog Output: 4 mA @ 0 Hz, 20 mA @ desired full scale frequency
Full Scale Range: 100 Hz to 10 kHz, selectable
Response Time: 95% of change in 1 second
Linearity: 0.3% FS
Temperature Coefficient: <2% of rdg over entire temperature range
Minimum Load Resistance: 250 Ω
Maximum Load Resistance: 500 Ω
Enclosure: FM Approved; Class I, Groups, B, C, D; Class II, Groups E, F, G
Weight: 771 g (1.7 lb)

F-52

Amplifier Squarewave Output

The FLSC-64 amplifies and conditions low-amplitude signals such as those developed by a magnetic pickup coil. The amplitude of the squarewave output equals the input supply voltage of the FLSC-64.

A sensitivity adjustment permits the FLSC-64 to discriminate between an input signal and noise. The FLSC-64 contains a built-in test oscillator that enables the operator to verify the amplifier's operation without a signal source. The power LED illuminates when the input supply voltage is present.

SPECIFICATIONS

Temperature:
 Operating: -40 to 85°C (-40 to 185°F)
 Storage: -65 to 125°C (-85 to 257°F)
Input Voltage: 5 to 28 Vdc, 12 mA @ 12 Vdc
Signal Input:
 Frequency: 0 to 10 kHz
 Amplitude: 20 mV pp minimum
 -35V sine or square-wave
 Impedance: 10 kΩ
Output: 5 to 28 Vdc squarewave proportional to input voltage; minimum load @ 250 Ω; short circuit protection
Features: Individual LED indicators for power and output signal; built-in test oscillator that injects 4 Hz test signal when Test P/B depressed
Enclosure: FM Approved; Class I, Groups, B, C, D; Class II, Groups E, F, G
Weight: 771 g (1.7 lb)
Size: 142 W (without union coupling) x 61 D x 95 mm Dia. (5.6 x 2.4 x 3.75")

