



# **SIGNAL CONDITIONERS FOR TURBINE METERS**

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

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)

**ALL MODELS  
AVAILABLE FOR  
FAST DELIVERY!**

**RoHS**

### **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")



**F-52**

Courtenay House, Monument Way East, Woking,  
Surrey GU21 5LY, United Kingdom

Tel: +44(0)844 443 7925  
Fax: +44(0)844 443 7928

Web Site: [www.medcotas.com](http://www.medcotas.com)