

# SIGNAL CONDITIONERS FOR TURBINE METERS

Suitable for Direct Mounting onto FTB-930 and FTB-940 Series Flowmeters

## FLSC-64

### FLSC-61 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

**Weight:** 771 g (1.7 lb)



FLSC-64 shown smaller than actual size.

All units are suitable for direct mounting onto the FTB-930 turbines. Visit us online for more details.

### FLSC-64 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

**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")

### FLSC-62A 4 to 20 mA Output

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

**Weight:** 771 g (1.7 lb)



FLSC-61 shown mounted onto FTB-939 turbine. Visit us online for more details.