

# ECONOMICAL HIGH-PERFORMANCE FLOW SIGNAL CONDITIONERS

## FLSC-45



**Low-Cost  
Model with  
Plastic Enclosure!**

- ✓ ±0.15% FS Accuracy
- ✓ Low-Cost Economical Design
- ✓ Plastic Enclosure for Wall Mounting
- ✓ 4 to 20 mA or 1 to 5 Vdc Field-Selectable Output
- ✓ Operates on 15 to 32 Vdc

FLSC-45 shown smaller than actual size.



The FLSC-45 flow signal conditioner is a DC-powered, frequency-to-analog converter that interfaces directly to many of TRODEKS's paddlewheel sensors to provide a linear scaled 4 to 20 mA or 1 to 5 Vdc field-

selectable output across a dedicated flow range. The high-performance electronics will accept a low-level magnetic pickup signal from a paddlewheel or turbine meter without amplification.

The industry-standard output interfaces directly with TRODEKS's iSeries meters and controllers. The FLSC-45 features a plastic enclosure with a built-in mounting plate for wall mounting.

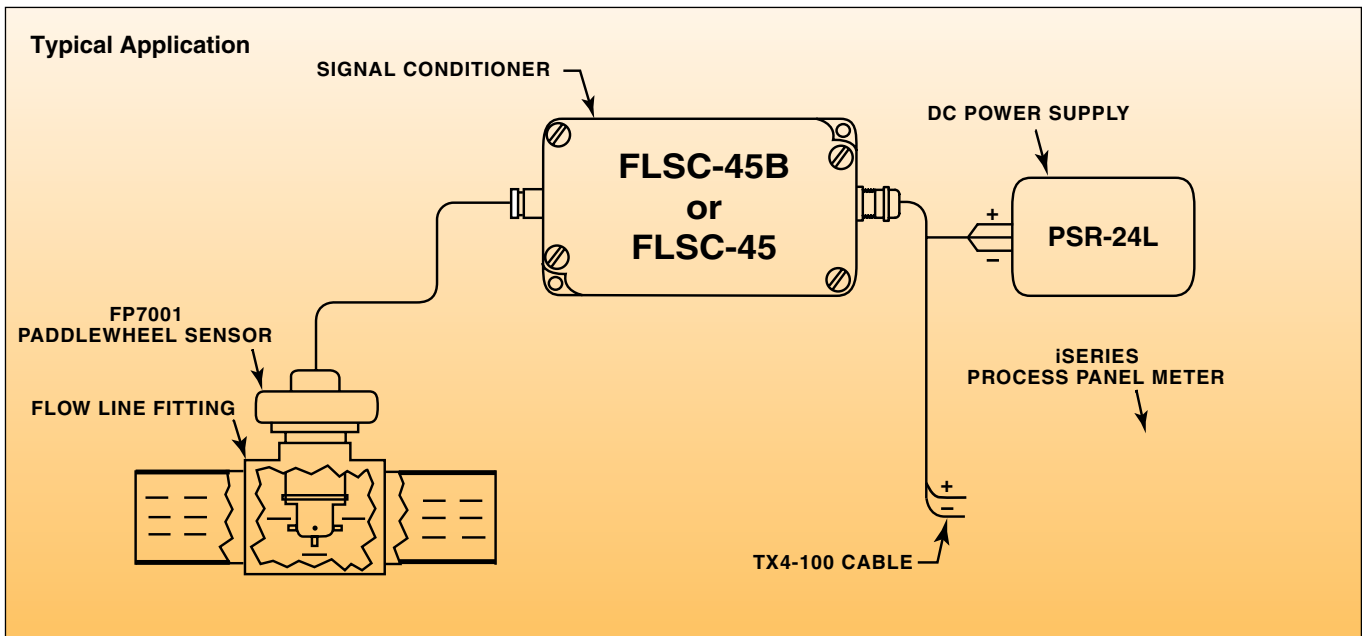
**Industrial Model  
with NEMA 4 Rating  
and CE Mark!**

## FLSC-45B



- ✓ ±0.15% FS Accuracy
- ✓ Rugged, Die-Cast NEMA 4 (IP65) Aluminum Enclosure for Industrial Use
- ✓ 4 to 20 mA or 1 to 5 Vdc Field-Selectable Output
- ✓ Operates on 15 to 24 Vdc
- ✓ CE Marking

The industrial, CE-marked version FLSC-45B flow signal conditioner is a DC-powered, frequency-to-analog converter that interfaces directly to many of TRODEKS's paddlewheel sensors to provide a linear scaled 4 to 20 mA or 1 to 5 Vdc field-selectable output across a dedicated flow range. The high-performance electronics will accept a low-level magnetic pickup signal from a paddlewheel or turbine meter without amplification. The industry-standard output interfaces directly with TRODEKS's iSeries meters and controllers. The FLSC-45B features a NEMA 4 (IP65) die-cast aluminum enclosure with built-in mounting holes.



**SPECIFICATIONS (FLSC-45)**

**Accuracy:**  $\pm 0.15\%$  FS  
**Repeatability:**  $\pm 0.025\%$   
**Input:** Sine wave 20 mV p-p min  
**Frequency Input Range to Achieve FS Output:** 65 to 7600 Hz  
**Power:** 10 to 32 Vdc for 4 to 20 mA output or 15 to 32 Vdc for 1 to 5 Vdc output  
**Output:** 3-wire (4 to 20 mA or 1 to 5 Vdc)  
**Response Time:** 2 s fixed  
**Maximum Loop Resistance:** (V supply - 10 V)/0.02 A =  $\Omega$   
**Operating Temperature:** -20 to 60°C (-4 to 140°F)  
**Storage Temperature:** -25 to 70°C (-12 to 158°F)  
**Enclosure:** Polypropylene  
**Approvals:** None  
**Dimensions:** 61 H x 104 W x 25 mm D (2.4 x 4.1 x 1")  
**Weight:** 96 g (3.3 oz)



**SPECIFICATIONS (FLSC-45B)**

**Accuracy:**  $\pm 0.15\%$  FS  
**Repeatability:**  $\pm 0.025\%$   
**Input:** Sine wave 20 mV p-p min  
**Frequency Input Range to Achieve FS Output:** 65 to 7600 Hz  
**Power:** 10 to 24 Vdc for 4 to 20 mA output or 15 to 24 Vdc for 1 to 5 Vdc output  
**Output:** 3-wire (4 to 20 mA or 1 to 5 Vdc)  
**Response Time:** 2 s fixed  
**Maximum Loop Resistance:** (V supply - 10 V)/0.02 A =  $\Omega$   
**Operating Temperature:** -20 to 60°C (-4 to 140°F)  
**Storage Temperature:** -25 to 70°C (-12 to 158°F)  
**Enclosure:** Die-cast, painted aluminum, NEMA 4 (IP65)  
**Approvals:** CE marked  
**Dimensions:** 65 H x 116 W x 32 mm D (2.6 x 4.6 x 1.3")  
**Weight:** 300 g (0.3 oz)

**To Order**

Model No.	Description
FLSC-45	Signal conditioner
FLSC-45B	Signal conditioner, NEMA 4 enclosure

**Recommended Paddlewheel Sensors**

Model No.	Description
FP7001A	Polypropylene body, 316 SS shaft for 3/4 to 3" pipes
FP-5300	Polypropylene body, titanium shaft for 1/2 to 4" pipes
FP-5301	Polypropylene body, titanium shaft for 4 to 8" pipes

**Complimentary Meters/Controllers**

Model No.	Description
DPI8	Temperature/process monitor 1/8 DIN
CNI8	Temperature/process controller 1/8 DIN

**Accessories**

Model No.	Description
TX4-100	4-conductor shielded cable, 30 m (100')
PSR-24L	24 Vdc, 400 mA power supply

Comes complete with operator's manual.

**Ordering Example:** FLSC-45B, signal conditioner (NEMA 4), PSR-24L, 24 Vdc, 400 mA power supply.