FIBER-OPTIC INPUT FLOW SIGNAL CONDITIONER

for Use with the LIGHTSPEED™ Paddlewheel Flow Sensor

PATENTED
Covered by U.S. and International patents and pending applications

FP9001A, $225, fiber optic flow sensor sold separately, please see page F-19.

FLSC90-A Signal Conditioner Shown smaller than actual size

NEMA 4 Enclosure

FLSC90-A

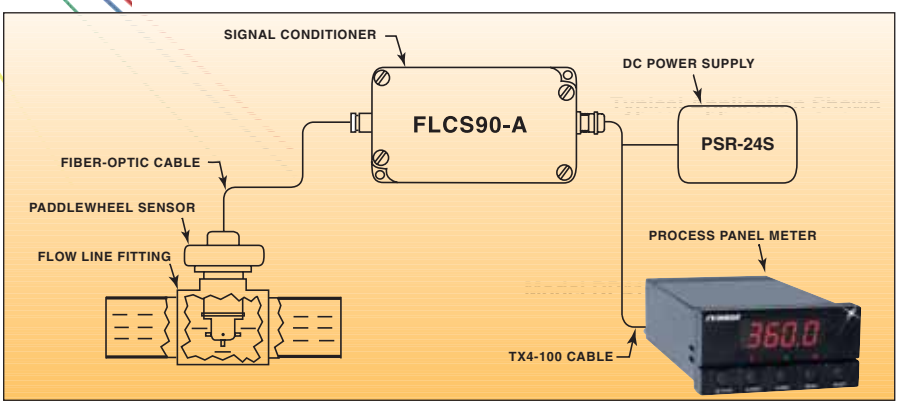
$390

Basic Unit

1 YEAR WARRANTY — MADE IN USA — CE — EMC SERVICES

- **0.15% Accuracy**
- **4 to 20 mA or 1 to 5 Vdc Output**
- **Compact Industrial Design**
- **CE Marked**
- **NEMA 4 Enclosure**

NEWPORT's Model FLSC90-A fiber-optic signal conditioner has been designed to interface directly with FP-9000A series LIGHTSPEED™ paddlewheel flow sensors. The FLSC90-A provides a high intensity light source to the patented paddlewheel sensor through a semi-flexible duplex fiber-optic cable. Returning light pulses are measured and converted by the signal conditioner's electronics to a scalable analog output that is proportional to the flowrate. The ability of the paddlewheel flow sensor to operate in harsh and heavy electrical noise environments via the fiber optic cable link makes this system ideal for such applications. The industry standard 4 to 20 mA or 1 to 5 Vdc analog output can connect directly to many of process meters, controllers, dataloggers or data acquisition systems.



Paddlewheel is covered by U.S. and international patents and pending applications.

SPECIFICATIONS

Accuracy: ±0.15% of full scale
Repeatability: ±0.025
Input: Light pulses from fiber optic flow sensor (FP-9000 Series) See Note*
Min. Input Frequency: 65 Hz
Max. Input Frequency: 960 Hz
Ambient Operating Range: 0 to 49°C (32 to 120°F)
Power: 8-32 Vdc @ 40 mA
Outputs (3-Wire Configuration): 4-20 mA/1-5 Vdc (Field Selectable)
Maximum Loop Resistance: (Vsupply-8V)/.020 A = Ohms
Dimensions: 114.5 L x 63.5 W x 35 mm H (4.51 x 2.50 x 1.38")
Storage Temperature: -20 to 65°C (-4 to 149°F)
Enclosure/Class: Die cast aluminium, NEMA 4 (IP66)
CE Approved: Yes
Weight: 238 g (8.3 oz)

AVAILABLE FOR FAST DELIVERY!

To Order ***(Specify Model Number)***

Model No.	Price	Description
FLSC90-A	$390	Fiber optic signal conditioner

Ordering Example: FLSC90-A, *fiber-optic signal conditioner, plus* ***TX4-100,*** *4-conductor power/output cable, plus* ***PSR-245,*** *24 Vdc power supply plus* ***OCW-3,***

Accessories

Model No.	Price	Description
TX4-100	$28.50	4-conductor power/output cable 30 m (100')
PSR-24S	60.00	24 Vdc regulated power supply
FLSC90-CA9*	35.00	Fiber-optic extension cable 2.7 m (9')
PE-1011	109.95	Reference Book: Instrumentation for Engineering Measurements

**** Note:*** *Only one extension cable can be used to extend the paddlewheel a maximum of 5.4 m (18') from the FLSC90-A signal conditioner.*