



PROGRAMMABLE ANALOG FLOW TRANSMITTER 310 SERIES



DESCRIPTION

The **Badger Meter 310 Series programmable analog flow transmitter** is a loop-powered device that converts the signal from a 200 or 4000 Series flow sensor into a linear 4-20 mA signal. An integral, adjustable electronic filter dampens the analog output for smooth, stable operation. The microprocessor-based **310 Series** can be ordered pre-configured, or it can be field-configured with a computer. An A301-20 Programming Kit will configure all **310 Series** transmitters.

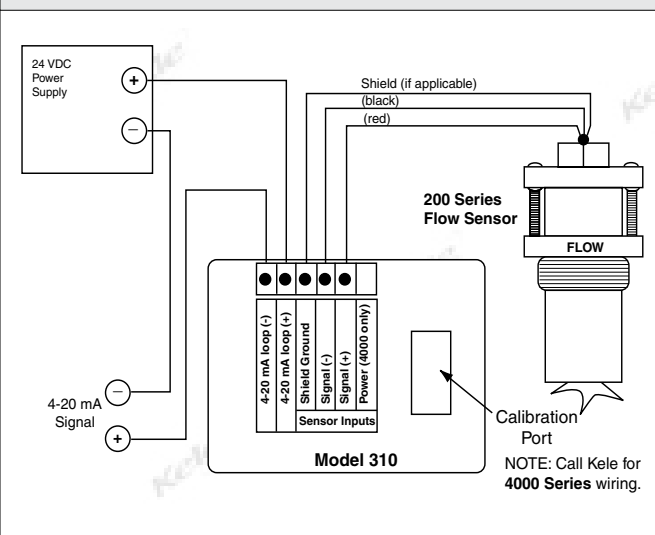


310-00

FEATURES

- **4-20 mA loop powered**
- **Compact size**
- **Computer programmable**
- **Electronic signal dampening**

WIRING



SPECIFICATIONS

Supply Voltage	Loop powered, 9-35 VDC
Accuracy	±0.04% of reading over entire span
Input Signal	0.4 to 10 kHz, unscaled raw pulses from Data Industrial flow sensor, or sine wave 4-20 mA, 2-wire
Output Signal	4-20 mA, 2-wire
Maximum Output Impedance	750Ω @ 24 VDC
Configuration	A301-20 programming kit (order separately) cable connects to DIC communication port and DB9 COM port on a computer. Transmitter must be loop-powered for programming (9-24 VDC will work)
Response Time	Varies with filter, typically 1 second 10% to 90% step response
Operating Temperature	-20° to 158°F (-29° to 70°C)
Mounting	
310-00	Surface mount, transmitter only
310-01	Surface mount, in NEMA 4X enclosure
310-02	Surface mount, in metal enclosure
310-03	Surface mount, in plastic enclosure
310-04	DIN rail mount, with clips
Dimensions	
310-00, -04	1.8"H x 3.7"W x 1.5"D (4.4 x 9.3 x 3.8 cm)
310-01, -02, -03	2.8"H x 4.5"W x 2.0"D (7.1 x 11.3 x 5.1 cm)
Warranty	1 year

ORDERING INFORMATION

MODEL	DESCRIPTION
310	Programmable analog flow transmitter
	MOUNTING
00	Transmitter only
01	Transmitter in NEMA 4X enclosure
02	Transmitter in metal enclosure
03	Transmitter in plastic enclosure
04	Transmitter with DIN rail mount
	OPTIONS
XR	Pre-configured option*

310 - 00 - XR **Example:** 310-00-XR Preconfigured programmable analog flow transmitter for field mounting

*For preconfigured flow sensors, specify pipe size, schedule, and maximum flow rate at time of order.

RELATED PRODUCTS

A301-20
200 Series
840134-0002

Flow/BTU transmitter programming kit, includes cable
Data Industrial impeller type flow sensors with pulse output
USB to DIC Program KIT