

## 2108 Analog Output Module

This module provides three independent current outputs for Isco 2150, 2151, 2151P, 2110, and 2150EX flow modules, allowing easy interface with SCADA/DCS or other secondary instrument systems.

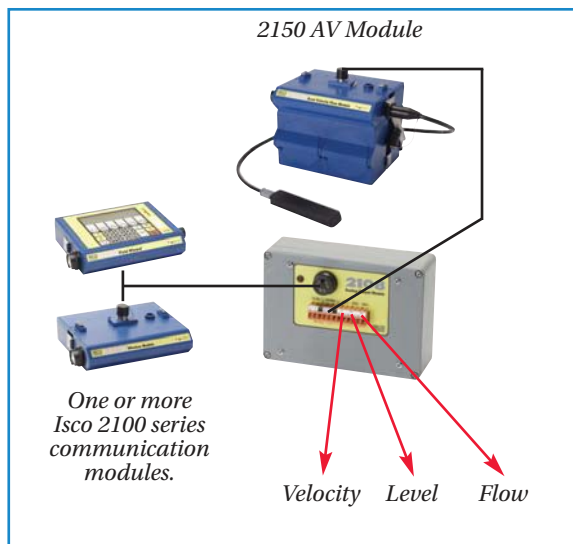
It is DIN rail mounted and uses a 7-26V DC power supply.

### Standard Features

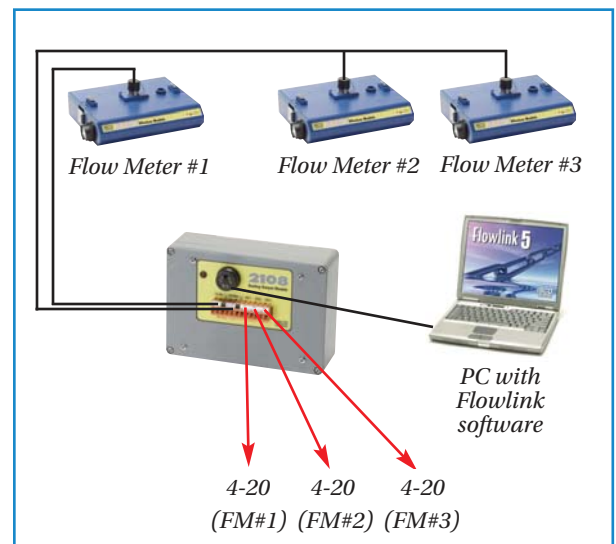
- ▶ Three independent, isolated outputs per module.
- ▶ Outputs are freely programmable for any parameter measured by a 2100 Series Flow Module.
- ▶ When more than one module is stacked or networked, each output can be configured for any parameter of any module connected to the 2108.
- ▶ The 2108 Module can be mounted as far as 3,000 ft from other modules (Isco's Quick-disconnect is recommended to simplify the installation).
- ▶ Isco Flowlink® software (v 4.15 and higher) can interrogate any 2100 Series module through the 2108, eliminating the need for entering a manhole to retrieve data.



Single module (example)



Multiple modules (example)



## Specifications

### 2108 Analog Output Module

**Size (H x W x D):** 4.764 x 6.732 x 2.165 in (12.1 x 17.1 x 5.5 cm)

**Weight:** 1.3 pounds (0.6 Kg)

**Case Material:** ABS

**Enclosure Rating:** NEMA 1, IP20

**Number of Analog Output Channels:** 3

#### Individual Channel Specifications

**Output range:** 4 - 20mA\*

**Maximum load resistance:** 600  $\Omega$

**Isolation:** Output galvanically isolated from DC power, from the network, and the other outputs.

**Accuracy:** *Integral Non-linearity:*  $\pm 0.012\%$  max  
*Offset:* (0mA or 4mA) ( $T_a=25^\circ\text{C}$ ):  $\pm 0.05\%$  max  
*Offset Drift:* 50 ppm/ $^\circ\text{C}$  max  
*Total Output Error:* (20mA or 24mA) ( $T_a=25^\circ\text{C}$ ):  $\pm 0.15\%$  max  
*Total Output Error Drift:* 50 ppm/ $^\circ\text{C}$  max  
*PSRR:* 10  $\mu\text{A/V}$  max

**Resolution:** 16 bits, 244 nA, 0.0015% of 16mA span

**Power:** 7.0 to 26.0V DC, 300 mA typical at 12V DC, 280 mA standby.

**Setup and Data Retrieval:** PC with Isco Flowlink<sup>®</sup> Software (version 4.15 or above)

**Operating Temperature:** -22 $^\circ\text{F}$  to 140 $^\circ\text{F}$  (-30 $^\circ\text{C}$  to 60 $^\circ\text{C}$ )

**Storage Temperature:** -40 $^\circ\text{F}$  to 140 $^\circ\text{F}$  (-40 $^\circ\text{C}$  to 60 $^\circ\text{C}$ )

### Ordering Information

Isco 2108 Analog Output Module ..... 68-2000-010  
*(includes small DIN rail, removable connector and instruction manual)*

*Note: Module connects to 4-20mA output to external non-Isco equipment, and requires a computer running Isco Flowlink v4.15 (or higher) software to configure.*

2100 Series Connect Cable (50 ft /15.2m) ..... 60-2004-219

Cable, #C0516 (specify desired length).....60-5314-417

Quick-disconnect Box ..... 60-2004-228

Power Adapter (Plug-in), 120V AC to 12V DC.....60-2004-057

Power Converter (DIN-mount), 120-240V AC to 12V DC ..... 341-0002-18  
*(Requires either 60-2400-219 [above] or 60-5314-461. Specify desired length)*

Flowlink<sup>®</sup> Software ..... 68-2540-200

\* Other output ranges are possible. Contact factory for information .

REPRESENTED BY:

**CCLYNCH**  
& ASSOCIATES

*The Water Monitoring People*

Phone: 1-800-333-2252

Fax: 228-452-2563

info@cclynch.com

www.cclynch.com