



# Remote Transmitters

## Remote 4-20 mA Transmitter



4-20 mA Transmitter  
without Display



4-20 mA Transmitter  
with Display

The Remote 4-20 mA Transmitter converts a low-level sine wave, open collector, square wave, or contact closure to a 4-20 mA output for long-distance transmission. This transmitter is used when a remote, externally powered current output is required.

### *Features and Benefits:*

- ✓ Provides communication with process control equipment.
- ✓ Works with G2 Turbine Meters and GM Oval Gear Meters.
- ✓ Available with or without Display.
- ✓ Microprocessor-based electronics have extremely low power requirements.
- ✓ Easy to set 4-20 mA endpoints under actual flow conditions.
- ✓ A signal conditioner with industry standard current loop output.
- ✓ Adjustable sampling time.
- ✓ Easily mounted on pipe, panel or wall.
- ✓ Loop powered.

## Remote Pulse-Out Transmitter

### *Features and Benefits:*

- ✓ Provides communication with process control equipment.
- ✓ Works with G2 Turbine Meters and GM Oval Gear Meters.
- ✓ Available with or without Display.
- ✓ Industry Standard Output: Unscaled Pulse.
- ✓ Easily mounted on pipe, panel or wall.
- ✓ Loop powered.



Pulse-Out Transmitter  
without Display



Pulse-Out Transmitter  
with Display

The Remote Pulse-Out Transmitter converts a low-level sine wave to a open-collector output suitable for long-distance transmission. A Remote Pulse-Out Transmitter is used when a remote, externally powered pulse output is required.



# G2 Series Remote Transmitters

## Remote Transmitters for G2 Meters:

Four options of Remote Transmitters are available for the G2 Turbine Meter line:

### Remote 4-20 mA Transmitter

With or Without Display  
(Electronic Choice 40 or 20)

### Remote Pulse-Out Transmitter

With or Without Display  
(Electronic Choice 40 or 20)

|                                                            | Remote 4-20 mA<br>With Display<br>(Electronic Choice: 40) | Remote Pulse-Out<br>With Display<br>(Electronic Choice: 30) | Remote 4-20 mA<br>Without Display<br>(Electronic Choice: 20) | Remote Pulse-Out<br>Without Display<br>(Electronic Choice: 10) |
|------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| <b>Accuracy:</b>                                           | ± 0.1% of reading                                         | ± 0.1% of reading                                           | ± 0.1% of reading                                            | ± 0.1% of reading                                              |
| <b>Output Options:</b>                                     |                                                           |                                                             |                                                              |                                                                |
| <b>Primary Output:</b>                                     | Loop (4-20 mA or 0-20 mA)                                 | N/A                                                         | Loop (4-20 mA or 0-20 mA)                                    | N/A                                                            |
| <b>Minimum:</b>                                            | 1.5 mA                                                    |                                                             | 1.5 mA                                                       |                                                                |
| <b>Maximum:</b>                                            | 25 mA                                                     |                                                             | 25 mA                                                        |                                                                |
| <b>Auxiliary Outputs 0-5V:</b>                             | Single Ended                                              | N/A                                                         | Single Ended                                                 | N/A                                                            |
| <b>Minimum:</b>                                            | 0.1 V                                                     |                                                             | 0.1 V                                                        |                                                                |
| <b>Maximum:</b>                                            | 4.9 V                                                     |                                                             | 4.9 V                                                        |                                                                |
| <b>Pulse-Out:</b>                                          |                                                           |                                                             |                                                              |                                                                |
| <b>Max. "OFF" Voltage:</b>                                 | —                                                         | 60 V                                                        | —                                                            | 60 V                                                           |
| <b>Max. "ON" Current:</b>                                  | —                                                         | 500 mA                                                      | —                                                            | 200 mA                                                         |
| <b>Max. "ON" Voltage Drop:</b>                             | —                                                         | < 0.5 V @ 500 mA                                            | —                                                            | < 0.5 V @ 500 mA                                               |
| <b>Electrical:</b>                                         |                                                           |                                                             |                                                              |                                                                |
| <b>Strain Relief:</b>                                      | Hubble PG7                                                | Hubble PG7                                                  | Hubble PG7                                                   | Hubble PG7                                                     |
| <b>Strain Relief Thread:</b>                               | Female 1/2-20 UNF-2B                                      | Female 1/2-20 UNF-2B                                        | Female 1/2-20 UNF-2B                                         | Female 1/2-20 UNF-2B                                           |
| <b>Cable:</b>                                              | Belden 9363                                               | Belden 9363                                                 | Belden 9363                                                  | Belden 9363                                                    |
| <b>Cable Length:</b>                                       | 20 ft. (6 m) provided                                     | 20 ft. (6 m) provided                                       | 20 ft. (6 m) provided                                        | 20 ft. (6 m) provided                                          |
| <b>Power Supply:</b>                                       | 2-wire, loop powered                                      | 2-wire, loop powered                                        | 2-wire, loop powered                                         | 2-wire, loop powered                                           |
| <b>Voltage Supply (Min.):</b>                              | 8.5 VDC                                                   | 8.5 VDC                                                     | 8.5 VDC                                                      | 8.5 VDC                                                        |
| <b>Voltage Supply (Max.):</b>                              | 35 VDC                                                    | 35 VDC                                                      | 35 VDC                                                       | 35 VDC                                                         |
| <b>Sensor Options: (w/G2 Meters)</b>                       |                                                           |                                                             |                                                              |                                                                |
| <b>Standard Remote Sensor:</b>                             | Low Level Sine Wave                                       | Low Level Sine Wave                                         | Low Level Sine Wave                                          | Low Level Sine Wave                                            |
| <b>Conditioned Signal or<br/>Pulse Access Sensor Type:</b> | Open collector                                            | Open collector                                              | Open collector                                               | Open collector                                                 |
| <b>Mounting:</b>                                           | Pipe, panel or wall                                       | Pipe, panel or wall                                         | Pipe, panel or wall                                          | Pipe, panel or wall                                            |
| <b>Operating Temperature:</b>                              | -14°F to 140°F (-10°C to 60°C)                            | -14°F to 140°F (-10°C to 60°C)                              | -14°F to 140°F (-10°C to 60°C)                               | -14°F to 140°F (-10°C to 60°C)                                 |
| <b>Frequency Input:</b>                                    |                                                           |                                                             |                                                              |                                                                |
| <b>Low Level Coil (LLC):</b>                               | 0.25 - 1000 Hz                                            | 0 - 1000 Hz                                                 | 0.25 - 1000 Hz                                               | 0 - 1000 Hz                                                    |
| <b>High Level Low Frequency:</b>                           | 0.25 - 150 Hz                                             | 0 - 150 Hz                                                  | 0.25 - 150 Hz                                                | 0 - 150 Hz                                                     |
| <b>High Level High Frequency:</b>                          | 0.25 - 1200 Hz                                            | 0 - 1200 Hz                                                 | 0.25 - 1200 Hz                                               | 0 - 1200 Hz                                                    |
| <b>Optically Isolated HLLF:</b>                            | w/2500 V optical isolation                                | w/2500 V optical isolation                                  | w/2500 V optical isolation                                   | w/2500 V optical isolation                                     |
| <b>Optically Isolated HLHF:</b>                            | w/2500 V optical isolation                                | w/2500 V optical isolation                                  | w/2500 V optical isolation                                   | w/2500 V optical isolation                                     |
| <b>Enclosure Rating:</b>                                   | NEMA 4X / IP55                                            | NEMA 4X / IP55                                              | NEMA 4X / IP55                                               | NEMA 4X / IP55                                                 |
| <b>Shipping Weight (approx.):</b>                          | 2.0 lbs. (.90 kg)                                         | 2.0 lbs. (.90 kg)                                           | 2.0 lbs. (.90 kg)                                            | 2.0 lbs. (.90 kg)                                              |