

## Flow Integral Systems with type 9900 Transmitter

Member of the SmartPro® Family of Instruments



### Product description

GF has combined the 9900 SmartPro® Transmitter with the 515/8510 and 2536/8512 Paddlewheel Flow sensors to create integral systems that are easy to order and simple to install. Integral systems are also available in conductivity, level, temperature, and pressure configurations.

Each integral system features a 9900 Transmitter which provides a local and easy to read LCD display. The push button keypad makes it easy to navigate through the transmitter's menu. The DC-powered 9900 features a scalable 4 to 20 mA output and open collector for process control.

Flow Integral Systems with 9900 Transmitters are combined with GF's field-proven Models 515/8510 and 2536/8512. These sensors reliably perform in flow ranges from 0.3 to 6 m/s (1 to 20 ft/s) and 0.1 to 6 m/s (0.3 to 20 ft/s) respectively for pipe sizes from ½ to 8 inches. They are available in a variety of materials including polypropylene and PVDF and are easily mounted in the pipe using GF's comprehensive line of standard fittings.

### Features

- Local display for sensor mounted instruments
- Provides 4 to 20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65

### Applications

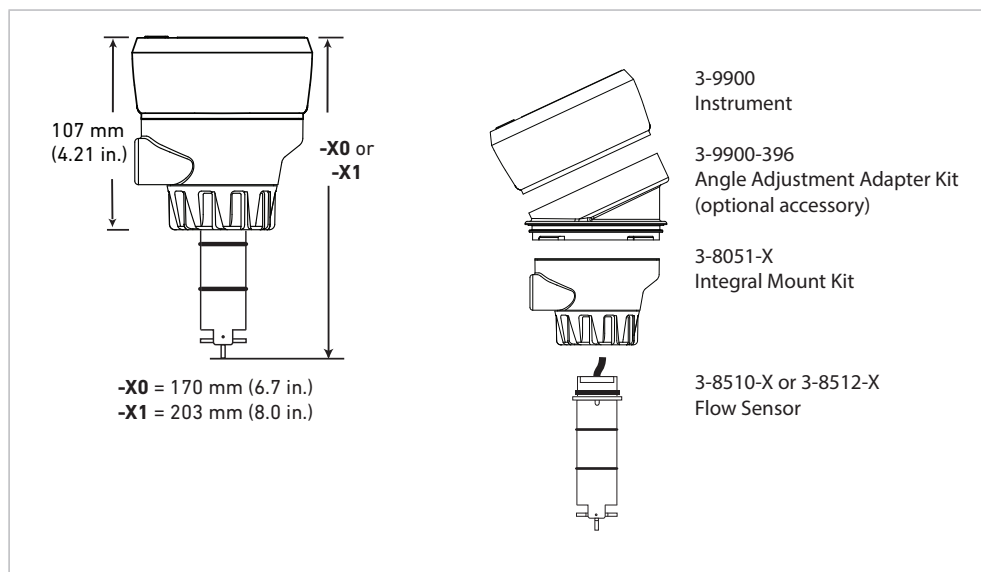
- RO/DI System Control
- Cooling Tower Control
- Water Quality Monitoring
- Filtration Systems
- Chemical Production
- Liquid Delivery Systems
- Pump Protection
- Scrubber Systems
- Semiconductor Water Production



## Technical Details

**i** See individual product pages for more information.

### Dimensions



## System Overview

### Integral Installation

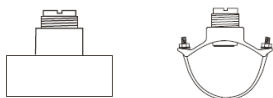
**Type 9900 Transmitter**  
With 3-8051-X Integral Mount Kit and 3-9900.396 Angle Adapter



**GF Sensor**  
3-8510-XX  
3-8512-XX



**Customer supplied standard 3/4 in fittings**



All sold separately

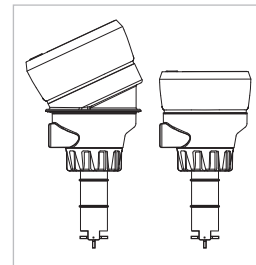
## Ordering Information

### Ordering Notes

Integral Mounts are available with all parts conveniently assembled (transmitter, sensor, and mounting kit). Alternatively, all three parts can be purchased separately. See individual transmitter and sensor pages for more information.

| Mfr. Part No./Code | Instrument + Sensor  | Angle adapter | Pipe Size  | Sensor Body Material | Sensor Rotor/Pin Material |
|--------------------|----------------------|---------------|------------|----------------------|---------------------------|
| 159 002 234        | 3-9900-1 w/3-8510-P0 | yes           | ½ to 4 in. | Polypropylene        | Black PVDF/Titanium       |
| 159 002 235        | 3-9900-1 w/3-8510-H0 | yes           | ½ to 4 in. | Polypropylene        | Black PVDF/Hastelloy-C    |
| 159 002 236        | 3-9900-1 w/3-8510-S0 | yes           | ½ to 4 in. | Polypropylene        | Black PVDF/Natural PVDF   |
| 159 002 237        | 3-9900-1 w/3-8510-T0 | yes           | ½ to 4 in. | PVDF Natural         | Natural PVDF/Natural PVDF |
| 159 002 238        | 3-9900-1 w/3-8510-P1 | yes           | 5 to 8 in. | Polypropylene        | Black PVDF/Titanium       |
| 159 002 239        | 3-9900-1 w/3-8512-P0 | yes           | ½ to 4 in. | Polypropylene        | Black PVDF/Titanium       |
| 159 002 240        | 3-9900-1 w/3-8512-H0 | yes           | ½ to 4 in. | Polypropylene        | Black PVDF/Hastelloy-C    |
| 159 002 241        | 3-9900-1 w/3-8512-S0 | yes           | ½ to 4 in. | Polypropylene        | Black PVDF/Natural PVDF   |
| 159 002 242        | 3-9900-1 w/3-8512-V0 | yes           | ½ to 4 in. | PVDF Natural         | Natural PVDF/Hastelloy-C  |
| 159 002 243        | 3-9900-1 w/3-8512-T0 | yes           | ½ to 4 in. | PVDF Natural         | Natural PVDF/Natural PVDF |
| 159 002 244        | 3-9900-1 w/3-8512-P1 | yes           | 5 to 8 in. | Polypropylene        | Black PVDF/Titanium       |
| 159 001 733*       | 3-9900-1 w/3-8510-P0 | no            | ½ to 4 in. | Polypropylene        | Black PVDF/Titanium       |
| 159 001 734*       | 3-9900-1 w/3-8510-H0 | no            | ½ to 4 in. | Polypropylene        | Black PVDF/Hastelloy-C    |
| 159 001 735*       | 3-9900-1 w/3-8510-S0 | no            | ½ to 4 in. | Polypropylene        | Black PVDF/Natural PVDF   |
| 159 001 736*       | 3-9900-1 w/3-8510-T0 | no            | ½ to 4 in. | PVDF Natural         | Natural PVDF/Natural PVDF |
| 159 001 737*       | 3-9900-1 w/3-8510-P1 | no            | 5 to 8 in. | Polypropylene        | Black PVDF/Titanium       |
| 159 001 738*       | 3-9900-1 w/3-8512-P0 | no            | ½ to 4 in. | Polypropylene        | Black PVDF/Titanium       |
| 159 001 739*       | 3-9900-1 w/3-8512-H0 | no            | ½ to 4 in. | Polypropylene        | Black PVDF/Hastelloy-C    |
| 159 001 740*       | 3-9900-1 w/3-8512-S0 | no            | ½ to 4 in. | Polypropylene        | Black PVDF/Natural PVDF   |
| 159 001 741*       | 3-9900-1 w/3-8512-V0 | no            | ½ to 4 in. | PVDF Natural         | Natural PVDF/Hastelloy-C  |
| 159 001 742*       | 3-9900-1 w/3-8512-T0 | no            | ½ to 4 in. | PVDF Natural         | Natural PVDF/Natural PVDF |
| 159 001 743*       | 3-9900-1 w/3-8512-P1 | no            | 5 to 8 in. | Polypropylene        | Black PVDF/Titanium       |

\*Only available in Europe.



## Accessoires

| Mfr. Part  | Code        | Description                  |
|------------|-------------|------------------------------|
| 3-9900.396 | 159 001 701 | Angle adjustment adapter kit |
| 3-0252     | 159 001 808 | Configuration Tool           |

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08/2025-A 3-9900-Flow-099 Rev A  
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