



Signet 4-3000-5 Remote AgRotor Flow Sensor Assembly



The GF Signet 4-3000-5 AgRotor flow sensor offers an easy to install, easy to repair, reliable, accurate means for measuring water flow in center pivot and irrigation piping systems.

The 3000-5 comes with 25 feet of cable to allow remote locating the 4-8150-3 display. The advanced AgRotor system allows a single meter design with the proper saddle to be mounted in either a horizontal or vertical piping system of a center Pivot ranging from 6 to 12 inches.

The AgRotor assembly design has no mechanical bushing or bearing to wear or require replacing. In the event of a rotor failure it can be replaced on-site in 15 minutes.

Features

- Allows remote mount from meter
- Installs in any 6 ft to 12 ft center pivot
- Innovative ceramic bearing designed to withstand gritty water
- Advanced digital engineering
- Can be mounted in the horizontal or vertical piping systems
- One moving part
- Snap-on replacement rotor: no special tools
- Low cost of ownership
- 2 year warranty

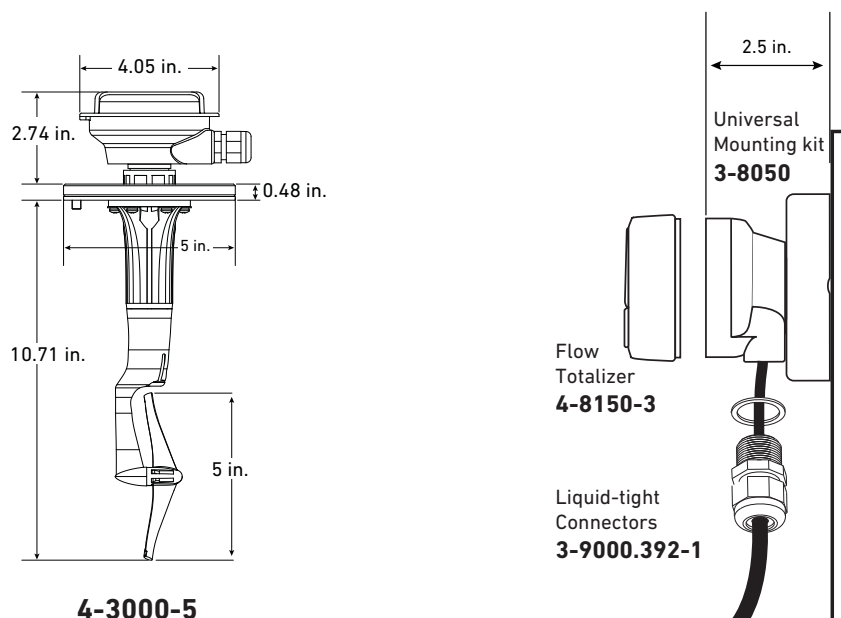
Applications

- Agriculture Irrigation
- Center Pivots
- Nursery/Greenhouse
- Fertilization/Chemical Injection
- Golf Courses
- Turf Irrigation

Specifications

General		
Typical Pipe Size and Flow Rates	6 in. pipe	88 to 1,761 gpm
	8 in. pipe	157 to 3,132 gpm
	10 in. pipe	245 to 4,893 gpm
	12 in. pipe	352 to 7,046 gpm
Repeatability	±0.5% of maximum range	
Accuracy	±2% of reading (under reference conditions)	
Cable Length	25 ft supplied, can be increased to 100 ft by customer	
Cable Type	2-conductor shielded twisted pair, 14 to 22 AWG	
Rotor Diameter	5 in.	
Wetted Materials		
Sensor Body	PC/PBT Alloy	
Rotor (propeller) Assembly	PC/PBT Alloy and Acetal	
Sensor Flange	A-36 Cold Roll Steel with Galvanized Coating	
Sensor Gasket	Neoprene Rubber	
Rotor Bearing and Shaft	Ceramic	
Rotor Face Seal	316 SS	
Fluid Conditions		
Agriculture Sensor Max. Pressure/Temp. Ratings	150 psi max @ 68 °F, 32 psi max @ 140 °F	
Electrical		
Supply Voltage	3.5 to 27 VDC	
Supply Current	<20 µA with sensor powered with 3.5 to 5 VDC	
Signet Output	Open collector transistor, sink, max. pull-up voltage 27 VDC (transistor normally off)	
Max. Open-Collector Current Out	20 mA	
Output Pulse Width	3 msec. nominal	
Standards and Approvals		
	CE	
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety	

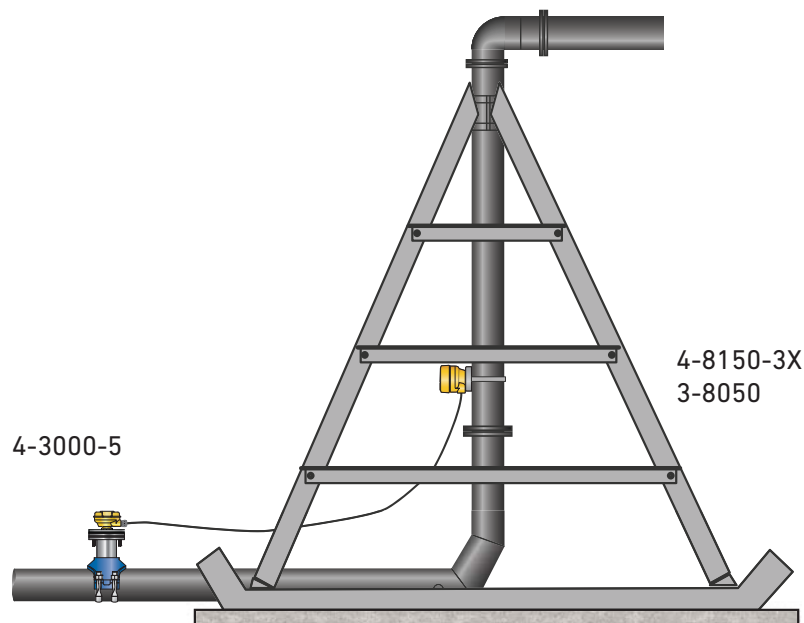
Dimensions



Application Note:

The AgRotor is designed for well water applications.

GF Signet will not be responsible for the performance of the irrigation sensor in applications where organic or inorganic materials (including but not limited to reeds, grasses, algae, hair or string) are present in the water stream nor in applications where silt, clay or any other adhesive materials may coat the surfaces of the rotor assembly.



Remotely locate the sensor from the instrument display

Ordering Information

Mfr. Part No.	Code	Description
4-3000-5	159 050 000	AgRotor Flow Sensor w/25 ft cable
4-8150-3*	159 050 434	Irrigation Flow Totalizer, Field Mount
4-8150-3P*	Special Order	Irrigation Flow Totalizer, Panel Mount
3-8050	159 000 184	Universal Junction Box
4-3000.390	159 310 085	Replacement Rotor Assembly, AgRotor

*Can be programmed for any totalizer units - AC/in., AC/Ft, Gallon x1000

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
Totalizer Parts and Accessories		
3-9000.392-1	159 000 839	Liquid Tight Connector
7400-0011**	159 000 935	3.6V Lithium Battery for 8150 (2 required)
5523-2222	159 000 392	Cable 2 cond. w/shield 22 AWG (per ft)

****NOTE:** Use Saft LS14500 Lithium Batteries or equivalent ONLY.

Saddles and Weldolets

Epoxy-coated Saddles with Flange		
4-3000.566	159 500 544	Saddle, irrigation, 6 inch OD (6.5" - 6.63")
4-3000.568	159 500 545	Saddle, irrigation, 8 inch OD (8.5" - 8.63")
4-3000.570	159 500 546	Saddle, irrigation, 10 inch OD (10.60" - 10.75")
4-3000.572	159 500 547	Saddle, irrigation, 12 inch OD (12.75" - 13.50")
Steel Weldolets with Flange		
4-3000.666	159 500 548	Weldolet, steel, irrigation, 6 inch
4-3000.668	159 500 549	Weldolet, steel, irrigation, 8 inch
4-3000.670	159 500 550	Weldolet, steel, irrigation, 10 inch
4-3000.672	159 500 551	Weldolet, steel, irrigation, 12 inch

