

Signet 4-8150-3 AgRotor Totalizer

Signet 4-8150-3-P0 Integral Rotor-X Paddlewheel



The GF Signet AgRotor Totalizer meets or exceeds the most stringent water authority requirements to provide a easy to operate, password protected, tamper-proof housing while providing an accurate easy to read display of irrigation water use in the Agriculture market.

The totalizer can be powered by two "AA" lithium batteries (provided) with a 4 year life or can be powered by either a solar panel or direct 12/24 volts DC which will dramatically increase the life time expectancy of the batteries.

The integral paddlewheel sensor with totalizator offers a practical low cost solution to monitor clean water systems such as livestock watering, small pipe irrigation systems (1/2" to 4 inch), nursery/green houses and many more water applications throughout the Agriculture and farming market.

Features

- Non volatile memory
- Optional Power
 - Battery
 - Solar Panel
 - 12 to 24 VDC (Pivot Panel Power)
- Volumetric pulse output - Telemetry compatible
- Tamper-proof
- Password Protected
- Lead Seal Ready



Applications

- Solid Set Irrigation
- Livestock Water
- Nursery Systems
- Wastewater Systems
- Remote Locations (no power)

Specifications

Signet 4-8150 AgRotor Totalizer

General		
Compatibility		Signet AgRotor Flow Sensor
Input Frequency		1 Hz to 400 Hz
Accuracy		±0.5% of reading
Enclosure		
Rating		NEMA 4X/IP65 (front panel)
Dimensions		1/4 DIN (96 mm x 96 mm x 50 mm) (3.8 in. x 3.8 in. x 2.0 in.)
Case Material		PBT resin
Keypad Material		Sealed 4-key silicon rubber
Display: LCD type		
4-digit upper line		Flow rate or elapsed time
8-digit lower line		Two totalizer options:
	Permanent Totalizer	Life of instrument
	Resettable Totalizer	Resettable at keypad
Electrical		
Battery		Two 3.6 V Lithium thionyl chloride, AA-size (Use SAFT LS14500 Lithium Batteries or Equivalent Only)
Input Power		12 to 24 VDC regulated (28 volts DC Maximum)
		Solar Panels (regulated)
Current		300 Micro-amps Maximum
Battery Life		4 years nominal @ 50 °C (122 °F)
Low Battery Indication		Battery symbol on LCD display
Pulse Output		
Maximum Current Sink		50 mA
Maximum Cable Length		1000 ft
Power Requirement		24 VDC max.
Environmental		
Operating Temperature		-10 °C to 65 °C (14 °F to 149 °F)
Storage Temperature		-40 °C to 100 °C (-40 °F to 212 °F)
Relative Humidity		0 to 95% non-condensing
Shipping Weight		
		0.5 kg (1.1 lbs)
Standards & Approvals		
		CE, FCC
		Manufactured under ISO 9001 for Quality, ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety

Specifications

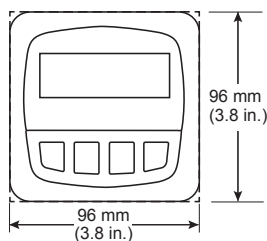
Signet 4-8150-3-P0 Signet AgRotor Totalizer

General	
Flow Rate Range	0.3 to 6 m/s (1 to 20 ft/s)
Pipe Size Range	½ in. to 4 in.
Linearity	±1% of full range
Repeatability	±0.5% full range
Cable Type	2-conductor twisted pair w/shield (22 AWG)
Minimum Reynolds Number Required	4500
Retaining Nut Material	Black Polypropylene
Wetted Materials	
Sensor Body	Glass filled Polypropylene
O-Rings	FKM (Std) or EPDM or FFKM
Pin	Titanium
Rotor	Black PVDF with PTFE Sleeve
Pressure/Temperature Ratings	
12.5 bar (180 psi) max. @ 20 °C (68 °F)	
1.7 bar (25 psi) max. @ 90 °C (194 °F)	
Shipping Weight	
0.454 kg (1 lb)	
Standards and Approvals	
CE, FCC	
Manufactured under ISO 9001 for Quality, ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety	

Dimensions

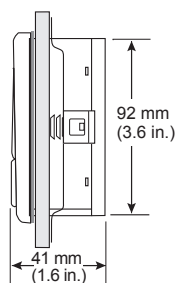
Field and Panel Mount

FRONT VIEW



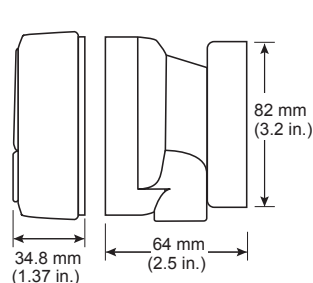
Panel Mount

SIDE VIEW

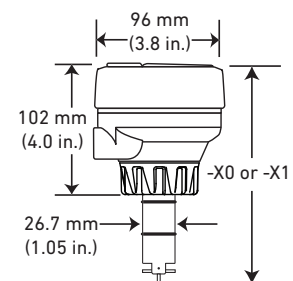


Field Mount with 8050

SIDE VIEW



4-8150-3-P0



Ordering Information

Totalizers and Replacement Parts

Mfr. Part No.	Code	Description
4-8150-3*	159 050 422	Irrigation Flow Totalizer, Field Mount
4-8150-3P*	Special Order**	Irrigation Flow Totalizer, Panel Mount
4-8510-P0	Special Order**	Replacement Paddlewheel Sensor
3-8050	159 000 184	Universal Remote Mount w/ Conduit Base
7400-0011	159 000 935	3.6V Lithium Battery for 8150 (two required)
7310-2024	159 973 005	24 VDC power supply, 24W, 1.0A

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

****NOTE:** Contact Factory for support/quote

Tees and Saddles for 4-8150-3-P0

Part No.	Code	Description
4-MPV8T005F	Contact Factory	½ in. PVC Tee
4-MPV8T007F	Contact Factory	¾ in. PVC Tee
4-MPV8T010F	Contact Factory	1 in. PVC Tee
4-MPV8T012F	Contact Factory	1¼ in. PVC Tee
4-MPV8T015F	Contact Factory	1½ in. PVC Tee
4-MPV8T020F	Contact Factory	2 in. PVC Tee
4-PV8S020	Contact Factory	2 in. PVDC Saddle
4-PV8S025	Contact Factory	2 ½ in. PVDC Saddle
4-PV8S030	Contact Factory	3 in. PVDC Saddle
4-PV8S040	Contact Factory	4 in. PVDC Saddle