Flow-Alert™ Flow Switches (Micro Switch)

For Liquids / Air and Other Compressed Gases

- Automatically signals alarm if flow is too high or too low
- Automatically opens or closes electrical circuits
- Triggers warning lights, buzzers and other devices
- Shuts down pumps and/or other equipment to protect your operation against permanent damage
- Available from ¼" to 1½" sizes in aluminum, brass and stainless
- Installs in any position
- Easier-to-read linear scale
- No flow straighteners or special piping requirements
- Relatively insensitive to shock and vibration
- Special scales available

SPECIFICATIONS:

MATERIALS:

2024 - T351 Anodized aluminum body, piston and cone
C360 Brass body, piston and cone
T303 Stainless body, 2024 - T351 Anodized aluminum piston and cone (Oil, PE, WBF, & Air Meters)
T303 Stainless body, C360 Brass piston and cone (Water meters)
T316 Stainless body, piston and cone

PETROLEUM (Oil) COMMON PARTS:

Spider Plate: T316 SS
Spring: T302 SS
Fasteners: T303 SS
Pressure Seals: Viton®
Lens: Polycarbonate
Retaining Ring: SAE 1070/1090 Carbon Steel
Retaining Spring: SAE 1070/1090 Carbon Steel
Indicator and Internal Magnet: PPS / Ceramic
Enclosure Seal: Silicone gasket
Scale Support: 6063 - T6 Aluminum

PHOSPHATE ESTER (PE) COMMON PARTS:

Spider Plate: T316 SS
Spring: T302 SS
Fasteners: T303 SS
Pressure Seals: EPR
Lens: Polycarbonate
Retaining Ring: SAE 1070/1090 Carbon Steel
Retaining Spring: SAE 1070/1090 Carbon Steel
Indicator and Internal Magnet: PPS / Ceramic
Enclosure Seal: Silicone gasket
Scale Support: 6063 - T6 Aluminum

WATER-BASED (WBF), WATER, AIR COMMON PARTS:

Spider Plate: T316 SS
Spring: T302 SS
Fasteners: T303 SS
Pressure Seals: Viton®
Lens: Polycarbonate
Retaining Ring: T316 SS
Retaining Spring: T316 SS
Indicator and Internal Magnet: PPS / Ceramic
Enclosure Seal: Silicone gasket
Scale Support: 6063 - T6 Aluminum

API OIL / AIR / CAUSTIC and CORROSIVE LIQUIDS and GASES:

Spider Plate: T316 SS
Spring: T316 SS
Fasteners: T316 SS
Pressure Seals: Viton®
Lens: Polycarbonate
Retaining Ring: T316 SS
Retaining Spring: T316 SS
Indicator and Internal Magnet: PPS / Ceramic
Enclosure Seal: Silicone gasket
Scale Support: 6063 - T6 Aluminum

THREADS: SAE J1926/1, **NPTF** ANSI B2.2, **BSPP** ISO1179

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C)

PRESSURE RATING:

Aluminum / Brass Operating:

Liquids - 3,500 psi/241 bar max. with a 3:1 safety factor.
Gases - 1,000 psi/69 bar max. with a 10:1 safety factor.
For High Cycle Applications: See page 7

Stainless Steel Operating:

Liquids - 6,000 psi/414 bar max. with a 3:1 safety factor.
Gases - 1,500 psi/103 bar max. with a 10:1 safety factor.
For High Cycle Applications: See page 7

ACCURACY: ±2% of full scale **REPEATABILITY:** ±1%

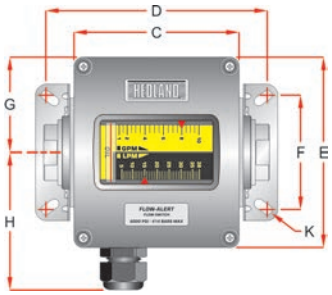
PRESSURE DROP REFERENCE TABLE:

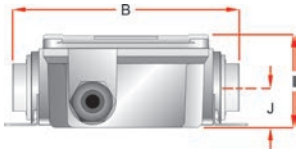
	FLUID TYPE							
	Oil	PE	WBF	Water	API Oil	Caustic & Corrosive Liquids	Air/Caustic & Corrosive Gases	Air
50% / 100% Pressure Drop	p. 10	p. 18	p. 26	p. 34	p. 38	p. 38	p. 40	p. 42
Pressure Drop Chart	p. 61	p. 62	p. 63	p. 64	p. 65	p. 64	p. 65	p. 66

Viton is a registered trademark of DuPont Dow Elastomers

Flow-Alert™ Flow Switches (Micro Switch)

For Liquids / Air and Other Compressed Gases





DIMENSIONS:

A	B	C	D	E	F	G	H	I	J	K
NOMINAL PORT SIZE	LENGTH in (mm)	LENGTH in (mm)	LENGTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	HOLE DIA. in (mm)
¼ (SAE 6)	6.6 (168)	5.27 (134)	6.41 (163)	6.00 (152)	3.23 (82)	3.00 (76)	4.20 (107)	2.94 (75)	1.51 (38)	.31 (8)
½ (SAE 10)	6.6 (168)	5.27 (134)	6.41 (163)	6.00 (152)	3.23 (82)	3.00 (76)	4.20 (107)	2.94 (75)	1.51 (38)	.31 (8)
¾ (SAE 12)	7.2 (183)	5.27 (134)	7.04 (179)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.27 (32)	.31 (8)
1 (SAE 16)	7.2 (183)	5.27 (134)	7.04 (179)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.27 (32)	.31 (8)
1¼ (SAE 20)	12.2 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.31 (8)
1½ (SAE 24)	12.2 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.31 (8)

ENCLOSURE:

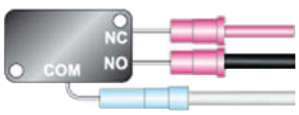
Material: Anodized and epoxy powder-coated aluminum with polycarbonate lens.
Seals: Silicone gasket between enclosure and lens.
Viton® O-rings between enclosure and flow meter body.
Connection: Pig-tail conductor (standard) with water-tight strain relief.
Other connections, including quick-disconnect, are available – consult factory for details.
Fastener: T303 SS
Rating: NEMA 12 & 13 (IP52/54)

ELECTRICAL CIRCUITRY:

Adjustable Flow-Alert™ signal: single (1) or double (2) switch, pre-wired single-pole, double-throw (SPDT) with high or low flow limit setting, adjustable over the entire flow measuring range. Other switches are available – consult factory for details.

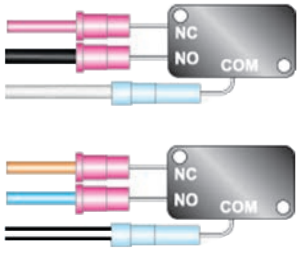
10A @ 250 VAC maximum, 0.5A @ 125 VDC maximum.

All Flow-Alert sizes (¼ to 1½ inch series) are offered in single (1) switch or double (2) switch models.
The single switch model is supplied with a 34" length of 4-wire #18 AWG jacketed cable.
The double switch model is supplied with an 18" length of 7-wire #16 AWG jacketed cable.
Optional 8 ft. cables are available – consult factory for details.



One (1) Switch 4-wire cable
Red: Normally Closed (NC)
Black: Normally Open (NO)
White: Common (COM)
Green: Ground

Two (2) Switch 7-wire cable
Switch #1
Red: Normally Closed (NC)
Black: Normally Open (NO)
White: Common (COM)
Switch #2
Orange: Normally Closed (NC)
Blue: Normally Open (NO)
White/Black: Common (COM)
Green: Ground



NOTE: Weights for all sizes can be found on page 79.

Flow-Alert™ Flow Switches (Reed Switch)

For Liquids / Air and Other Compressed Gases

- No mechanical linkage
- Automatically signals alarm if flow is too high or too low
- Available from ¼" to 1½" sizes in aluminum, brass and stainless
- Installs in any position
- Easier-to-read linear scale
- No flow straighteners or special piping requirements
- Relatively insensitive to shock and vibration
- Special scales available

SPECIFICATIONS:

MATERIALS:
2024 - T351 Anodized aluminum body, piston and cone
C360 Brass body, piston and cone
T303 Stainless body, 2024 - T351 Anodized aluminum piston and cone (Oil, PE, WBF, & Air meters)
T303 Stainless body, C360 Brass piston and cone (Water meters)
T316 Stainless body, piston and cone

PETROLEUM (Oil) COMMON PARTS:
Spider Plate: T316 SS **Retaining Ring:** SAE 1070/1090 Carbon Steel
Spring: T302 SS **Retaining Spring:** SAE 1070/1090 Carbon Steel
Fasteners: T303 SS **Indicator:** T400 Series Stainless
Pressure Seals: Viton® **Internal Magnet:** Teflon® Coated Alnico 8
Lens: Polycarbonate **Switch Carrier:** Aluminum
Enclosure Seal: Silicone gasket **Scale Support:** 6063 - T6 Aluminum

PHOSPHATE ESTER (PE) COMMON PARTS:
Spider Plate: T316 SS **Retaining Ring:** SAE 1070/1090 Carbon Steel
Spring: T302 SS **Retaining Spring:** SAE 1070/1090 Carbon Steel
Fasteners: T303 SS **Indicator:** T400 Series Stainless
Pressure Seals: EPR **Internal Magnet:** Teflon® Coated Alnico 8
Lens: Polycarbonate **Switch Carrier:** Aluminum
Enclosure Seal: Silicone gasket **Scale Support:** 6063 - T6 Aluminum

WATER-BASED (WBF), WATER, AIR COMMON PARTS:
Spider Plate: T316 SS **Retaining Ring:** T316 SS
Spring: T302 SS **Retaining Spring:** T316 SS
Fasteners: T303 SS **Indicator:** T400 Series Stainless
Pressure Seals: Viton® **Internal Magnet:** Teflon® Coated Alnico 8
Lens: Polycarbonate **Switch Carrier:** Aluminum
Enclosure Seal: Silicone gasket **Scale Support:** 6063 - T6 Aluminum

API OIL / AIR / CAUSTIC and CORROSIVE LIQUIDS and GASES:
Spider Plate: T316 SS **Retaining Ring:** T316 SS
Spring: T316 SS **Retaining Spring:** T316 SS
Fasteners: T316 SS **Indicator:** T400 Series Stainless
Pressure Seals: Viton® **Internal Magnet:** Teflon® Coated Alnico 8
Lens: Polycarbonate **Switch Carrier:** Aluminum
Enclosure Seal: Silicone gasket **Scale Support:** 6063 - T6 Aluminum

THREADS: SAE J1926/1, **NPTF** ANSI B2.2, **BSPP** ISO1179

TEMPERATURE RANGE: -20 to +240 °F (-20 to +116 °C)

PRESSURE RATING:
Aluminum / Brass Operating:
Liquids - 3,500 psi/241 bar max. with a 3:1 safety factor.
Gases - 1,000 psi/69 bar max. with a 10:1 safety factor.
For High Cycle Applications: See page 7
Stainless Steel Operating:
Liquids - 6,000 psi/414 bar max. with a 3:1 safety factor.
Gases - 1,500 psi/103 bar max. with a 10:1 safety factor.
For High Cycle Applications: See page 7

ACCURACY: ±2% of full scale, ±7% of full scale for 4.8" (122 mm) length ¼" meters

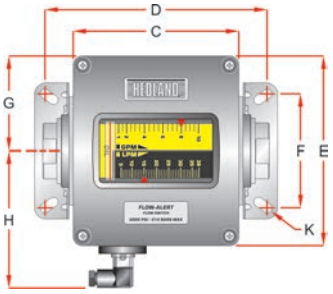
REPEATABILITY: ±1%

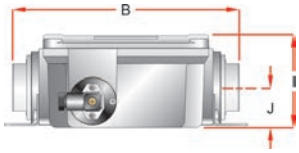
PRESSURE DROP REFERENCE TABLE:

	FLUID TYPE							
	Oil	PE	WBF	Water	API Oil	Caustic & Corrosive Liquids	Air/Caustic & Corrosive Gases	Air
50% / 100% Pressure Drop	p. 10	p. 18	p. 26	p. 34	p. 38	p. 38	p. 40	p. 42
Pressure Drop Chart	p. 61	p. 62	p. 63	p. 64	p. 65	p. 64	p. 65	p. 66

Flow-Alert™ Flow Switches (Reed Switch)

For Liquids / Air and Other Compressed Gases



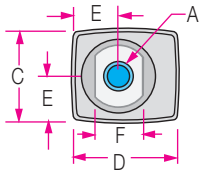


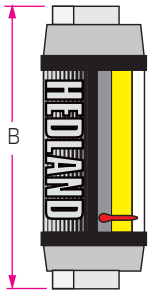
DIMENSIONS:

A	B	C	D	E	F	G	H	I	J	K
NOMINAL PORT SIZE	LENGTH in (mm)	LENGTH in (mm)	LENGTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	HOLE DIA. in (mm)
¼ (SAE 6)	6.6 (168)	5.27 (134)	6.41 (163)	6.00 (152)	3.23 (82)	3.00 (76)	4.20 (107)	2.94 (75)	1.51 (38)	.31 (8)
½ (SAE 10)	6.6 (168)	5.27 (134)	6.41 (163)	6.00 (152)	3.23 (82)	3.00 (76)	4.20 (107)	2.94 (75)	1.51 (38)	.31 (8)
¾ (SAE 12)	7.2 (183)	5.27 (134)	7.04 (179)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.27 (32)	.31 (8)
1 (SAE 16)	7.2 (183)	5.27 (134)	7.04 (179)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.27 (32)	.31 (8)
1¼ (SAE 20)	12.2 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.31 (8)
1½ (SAE 24)	12.2 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.31 (8)

DIMENSIONS:

A	B	C	D	E	F
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)
¼ (SAE 6)	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)

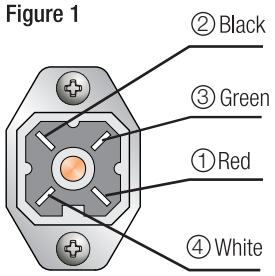




ENCLOSURE:

Material: Anodized and epoxy powder-coated aluminum with polycarbonate lens.
Seals: Silicone gasket between enclosure and lens.
Viton® O-rings between enclosure and flow meter body.
Connection: 4-pin (Protection Class IP65)
Fastener: T303 SS
Rating: NEMA 12 & 13 (IP 52/54)

Figure 1

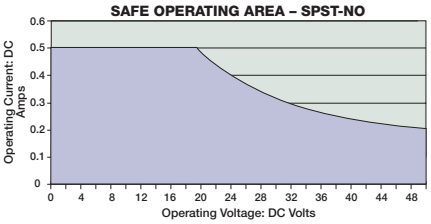


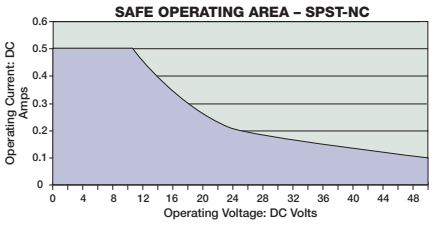
Electrical Circuitry:
The flow switch is supplied with 15 feet of shielded, 4-wire #22 AWG PVC jacketed cable, color coded as follows: ① Red, ② Black for single (1) Reed Switch, and ③ Green, ④ White for double (2) Reed Switch.

ELECTRICAL SPECIFICATIONS:

Adjustable Flow-Alert™ signal: single (1) or double (2) reed switch, pre-wired single-pole, single-throw (SPST-NO) normally open; or single-pole, single-throw (SPST-NC) normally closed, with high or low flow limit setting, adjustable over the entire flow measuring range.

Contact Form	SPST-NO	SPST-NC
ELECTRICAL SPECIFICATIONS		
Contact Rating	10 Watts Max	5 Watts Max
Voltage, Switching	50 VDC Max	50 VDC Max
Current (resistive), Switching	0.500 A Max	0.500 A Max
OPERATING SPECIFICATIONS		
Contact Resistance, Initial	0.100 Ω Max	0.100 Ω Max
Operating Temperature	20 to +240 °F (-20 to +116 °C)	-20 to +240 °F (-20 to +116 °C)





NOTE: Weights for all sizes can be found on page 79.

MR Flow Transmitters

For Liquids / Air and Other Compressed Gases

- Full line of multi-functional remote flow indicators and transmitters
- Operate as part of a totally integrated electronic process control/data acquisition system
- Non-contact sensor electronics
- Electronic signal conditioning circuit
- Digital flow rate and total flow indication
- Proportional analog output
- In-field compensation for- Specific gravity of all fluids Viscosity of petroleum-based fluids Specific gravity, pressure, and temperature of pneumatic systems
- CE compliant- exceeds US and meets European standards for EMI/EMC
- US Patent 7,130,750

Viton is a registered trademark of DuPont Dow Elastomers
Teflon is a registered trademark of E.I. DuPont de Nemours & Co.

SPECIFICATIONS:

MATERIALS:
2024 - T351 Anodized aluminum body, piston and cone
C360 Brass body, piston and cone
T303 Stainless body, 2024 - T351 Anodized aluminum piston and cone (Oil, PE, WBF, & Air meters)
T303 Stainless body, C360 Brass piston and cone (Water meters)
T316 Stainless body, piston and cone

PETROLEUM (Oil) COMMON PARTS:
Spider Plate: T316 SS **Retaining Ring:** SAE 1070/1090 Carbon Steel
Spring: T302 SS **Retaining Spring:** SAE 1070/1090 Carbon Steel
Fasteners: T303 SS **Internal Magnet:** Teflon® Coated Alnico 8
Pressure Seals: Viton® **Enclosure Seal:** Silicone gasket
Lens: Polycarbonate

PHOSPHATE ESTER (PE) COMMON PARTS:
Spider Plate: T316 SS **Retaining Ring:** SAE 1070/1090 Carbon Steel
Spring: T302 SS **Retaining Spring:** SAE 1070/1090 Carbon Steel
Fasteners: T303 SS **Internal Magnet:** Teflon® Coated Alnico 8
Pressure Seals: EPR **Enclosure Seal:** Silicone gasket
Lens: Polycarbonate

WATER-BASED (WBF), WATER, AIR COMMON PARTS:
Spider Plate: T316 SS **Retaining Ring:** T316 SS
Spring: T302 SS **Retaining Spring:** T316 SS
Fasteners: T303 SS **Internal Magnet:** Teflon® Coated Alnico 8
Pressure Seals: Viton® **Enclosure Seal:** Silicone gasket
Lens: Polycarbonate

API OIL / AIR / CAUSTIC and CORROSIVE LIQUIDS and GASES:
Spider Plate: T316 SS **Retaining Ring:** T316 SS
Spring: T316 SS **Retaining Spring:** T316 SS
Fasteners: T316 SS **Internal Magnet:** Teflon® Coated Alnico 8
Pressure Seals: Viton® **Enclosure Seal:** Silicone gasket
Lens: Polycarbonate

THREADS: SAE J1926/1, **NPTF** ANSI B2.2, **BSPP** ISO1179

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C)

PRESSURE RATING:
Aluminum / Brass Operating:
Liquids - 3,500 psi/241 bar maximum with a 3:1 safety factor.
Gases - 1,000 psi/69 bar maximum with a 10:1 safety factor.
For High Cycle Applications: See page 7

Stainless Steel Operating:
Liquids - (¼" to ½") - 6,000 psi/414 bar maximum with a 3:1 safety factor
Liquids - (¾" to 1½") - 5,000 psi/345 bar maximum with a 3:1 safety factor
Gases - 1,500 psi/103 bar maximum with a 10:1 safety factor.
For High Cycle Applications: See page 7

ACCURACY: ±2% of full scale **REPEATABILITY:** ±1%

PRESSURE DROP REFERENCE TABLE:

	FLUID TYPE							
	Oil	PE	WBF	Water	API Oil	Caustic & Corrosive Liquids	Air/Caustic & Corrosive Gases	Air
50% / 100% Pressure Drop	p. 10	p. 18	p. 26	p. 34	p. 38	p. 38	p. 40	p. 42
Pressure Drop Chart	p. 61	p. 62	p. 63	p. 64	p. 65	p. 64	p. 65	p. 66

MR Flow Transmitters

For Liquids / Air and Other Compressed Gases

ENCLOSURE:

Material: Anodized and epoxy powder-coated aluminum with polycarbonate lens

Seals: Silicone gaskets between enclosure and lens
Viton® O-rings between enclosure and flow meter body

Connection: 4-pin (Protection Class IP65) standard, see Figure 2
Other connections available - consult factory for details

Fasteners: T303 SS

Rating: NEMA 12 & 13 (IP 52/54)

ELECTRICAL SPECIFICATIONS:

Power Requirement: 0-5 VDC Output: 10-30 VDC @ 0.75W maximum
0-10 VDC Output: 12-30 VDC @ 0.75W maximum
4-20 mA Output: loop-powered, 30 VDC maximum

Power Consumption: 25 mA maximum

Analog Outputs: 0-5 VDC and 0-10 VDC into 10,000 Ohms minimum
4-20 mA into 1000 Ohms maximum, see Figure 1

Circuit Protection: Reverse polarity and current limiting

Transmission Distance: 4-20 mA limited by cable resistance
0-5 VDC and 0-10 VDC 1000 feet (300 m) maximum

Isolation: Inherently isolated from the piping system

Display: Fixed or toggle modes of operation for rate and totalizer display
8 digit, 0.70" high numeric display for rate and total
8 digit, 0.35" high alphanumeric display for units and setup

Temperature Drift: 50 ppm / °C (max)

Analog Output: Resolution - 1:4000

Transient Over-Voltages: Category 3, in accordance with IEC 664

Pollution Degree: Category 2, in accordance with IEC 664

Approvals: EMC Directive 89/336/EEC

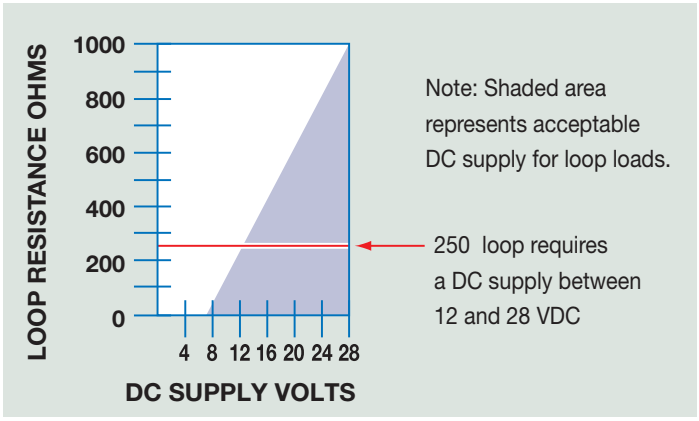
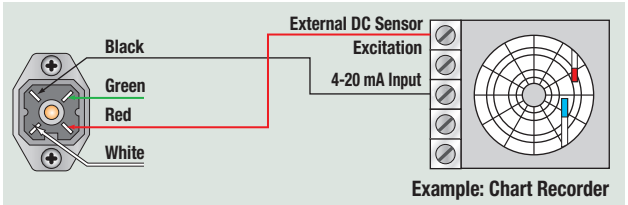


Figure 1. Load Limitations (4-20 mA Output Only)

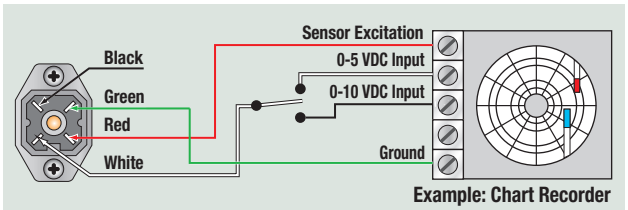
SCHEMATICS:

The transmitter can be wired in various configurations to allow interface with many different types of data collection and control instrumentation.

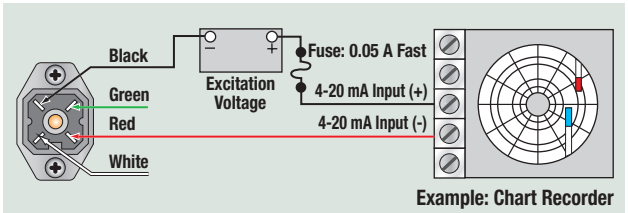
Schematics 1 & 2 represent typical wiring for a target powered by either AC power or DC supply. Schematics 3 & 4 will be utilized when the flow transmitter is operated with loop-powered process indicators or data loggers that do not have external sensor excitation available.



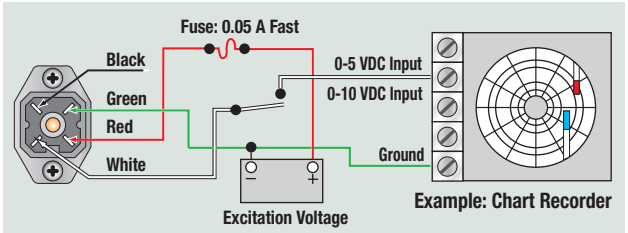
Schematic 1: 4-20 mA connection using target power supply



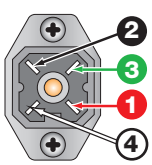
Schematic 2: 0-5 Vdc or 0-10 Vdc connection using target power supply



Schematic 3: 4-20 mA connection using target external power supply



Schematic 4: 0-5 Vdc or 0-10 Vdc connection using target external power supply



	DC Output Connection	Loop Power Connection
2 Black:	No Connection	(-) 4-20 mA Out
3 Green:	0 VDC	No Connection
1 Red:	(+) DC Power	(+) 4-20 mA In
4 White:	0-5 VDC or 0-10 VDC Output	No Connection

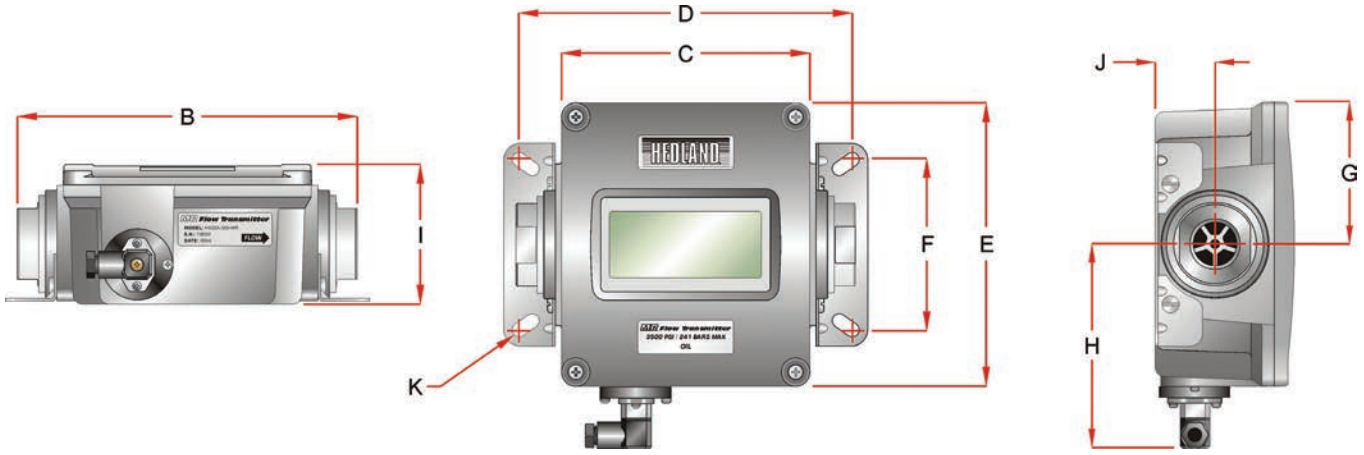
Figure 2. Electrical 4-Pin Connection

MR Flow Transmitters

For Liquids / Air and Other Compressed Gases

Dimensions:

A	B	C	D	E	F	G	H	I	J	K
NOMINAL PORT SIZE	LENGTH in (mm)	LENGTH in (mm)	LENGTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	HOLE DIA. in (mm)
¼ (SAE 6)	6.60 (168)	5.27 (134)	6.41 (163)	6.00 (152)	3.23 (82)	3.00 (76)	4.20 (107)	2.94 (75)	1.51 (38)	.31 (8)
½ (SAE 10)	6.60 (168)	5.27 (134)	6.41 (163)	6.00 (152)	3.23 (82)	3.00 (76)	4.20 (107)	2.94 (75)	1.51 (38)	.31 (8)
¾ (SAE 12)	7.20 (183)	5.27 (134)	7.04 (179)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.27 (32)	.31 (8)
1 (SAE 16)	7.20 (183)	5.27 (134)	7.04 (179)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.27 (32)	.31 (8)
1¼ (SAE 20)	12.20 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.31 (8)
1½ (SAE 24)	12.20 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.31 (8)



Optional Remote Display and Signal Processor:

Hedland also offers the F6700/F6750 Series Digital Display with integrated signal processor capabilities to further enhance the utility of the MR Flow Transmitters. In addition to remote flow monitoring, these units can be configured to provide alarm processing and communication options including RS232, RS485, Modbus, Profibus and DeviceNet. For complete product specifications, refer to page 59.

Flow-Alert™ Flow Switches and Flow Transmitters
For Water Fluids

ORDERING INFORMATION:

NOMINAL PORT SIZE①	FLOW RANGE		MODEL NUMBER (see example below)			MATERIAL		OPTIONS		
	GPM	LPM	SAE	NPTF	BSPP	BRASS 3500 PSI	STAINLESS	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
¼" SAE 6	.02 - 0.2 .05 - 0.5	0.1 - 0.75 0.2 - 1.9	H204 ★ - 002 - † H204 ★ - 005 - †	H205 ★ - 002 - † H205 ★ - 005 - †	H206 ★-002 - † H206 ★-005 - †	B	6000 PSI S	Not Available	SEE OPTIONS BELOW	Not Available
¼" SAE 6	0.1 - 1.0 0.2 - 2.0	0.5 - 3.75 1.0 - 7.5	H204 ★ - 010 - † H204 ★ - 020 - †	H205 ★ - 010 - † H205 ★ - 020 - †	H206 ★-010 - † H206 ★-020 - †	B	6000 PSI S	F1/F2		MR
½" SAE 10	0.1 - 1.0 0.2 - 2.0 0.5 - 5.0 1 - 10 1 - 15	0.5 - 3.75 1 - 7.5 2 - 19 5 - 38 4 - 56	H604 ★ - 001 - † H604 ★ - 002 - † H604 ★ - 005 - † H604 ★ - 010 - † H604 ★ - 015 - †	H605 ★ - 001 - † H605 ★ - 002 - † H605 ★ - 005 - † H605 ★ - 010 - † H605 ★ - 015 - †	H606 ★-001 - † H606 ★-002 - † H606 ★-005 - † H606 ★-010 - † H606 ★-015 - †	B	6000 PSI S	F1/F2		MR
¾" SAE 12	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115	H704 ★ - 002 - † H704 ★ - 005 - † H704 ★ - 010 - † H704 ★ - 020 - † H704 ★ - 030 - †	H705 ★ - 002 - † H705 ★ - 005 - † H705 ★ - 010 - † H705 ★ - 020 - † H705 ★ - 030 - †	H706 ★-002 - † H706 ★-005 - † H706 ★-010 - † H706 ★-020 - † H706 ★-030 - †	B	5000 PSI S	F1/F2		MR
1" SAE 16	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30 4 - 40 5 - 50	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115 15 - 150 20 - 190	H754 ★ - 002 - † H754 ★ - 005 - † H754 ★ - 010 - † H754 ★ - 020 - † H754 ★ - 030 - † H754 ★ - 040 - † H754 ★ - 050 - †	H755 ★ - 002 - † H755 ★ - 005 - † H755 ★ - 010 - † H755 ★ - 020 - † H755 ★ - 030 - † H755 ★ - 040 - † H755 ★ - 050 - †	H756 ★-002 - † H756 ★-005 - † H756 ★-010 - † H756 ★-020 - † H756 ★-030 - † H756 ★-040 - † H756 ★-050 - †	B	5000 PSI S	F1/F2		MR
1¼" SAE 20	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	H804 ★ - 030 - † H804 ★ - 050 - † H804 ★ - 075 - † H804 ★ - 100 - † H804 ★ - 150 - †	H805 ★ - 030 - † H805 ★ - 050 - † H805 ★ - 075 - † H805 ★ - 100 - † H805 ★ - 150 - †	H806 ★-030 - † H806 ★-050 - † H806 ★-075 - † H806 ★-100 - † H806 ★-150 - †	B	5000 PSI S	F1/F2		MR
1½" SAE 24	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	H854 ★ - 030 - † H854 ★ - 050 - † H854 ★ - 075 - † H854 ★ - 100 - † H854 ★ - 150 - †	H855 ★ - 030 - † H855 ★ - 050 - † H855 ★ - 075 - † H855 ★ - 100 - † H855 ★ - 150 - †	H856 ★-030 - † H856 ★-050 - † H856 ★-075 - † H856 ★-100 - † H856 ★-150 - †	B	5000 PSI S	F1/F2		MR

①Fractional sizes apply to NPTF and BSPP.

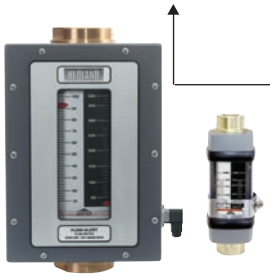
(example) H 705 B - 030 - F1 or F2

Flow-Alert Flow Switches

F1 = Single Switch

F2 = Double Switch

(example) H 701 A - 030 - RS1NO



Flow-Alert Reed Switches

Options:

RS1NO (reed switch one (1) normally open)

RS2NO (reed switch two (2) normally open)

RS1NC (reed switch one (1) normally closed)

RS2NC (reed switch two (2) normally closed)

(example) H 705 B - 030 - MR

Multiple Output Flow Sensor

3 Standard field selectable outputs

0-5 VDC
0-10 VDC
4-20 mA

} Flow Transmitter is factory-calibrated to provide 4 mA (0 VDC) at zero flow and 20 mA (5/10 VDC) at full flow. Optional 5-point calibration certificate available (see Price and Availability Digest for details).

NOTE: ¼" liquid meters for .02-0.2 and .05-0.5 GPM ranges available in strap-on design for RS1NO and RS1NC only.

NOTE: For 50% and 100% flow/pressure drop information, see page 36. For detailed flow/pressure drop charts, see page 64.