Sigma Controls, Inc.
PROCESS CONTROLS AND INSTRUMENTATION
217 S. Fifth Street, Perkasie, PA 18944
PH: 215-257-3412 FAX: 215-257-3416

SERIES 9500DP MICROPROCESSOR BASED DIFFERENTIAL PRESSURE TRANSMITTER

FEATURES

- **Small Form Factor**
- **Analog/Digital Output**
- **Ultra Stable/High 0.2% Accuracy**
- **316SS Construction**
- **Active Temperature Compensation**
- **Integral Surge Protection**
- **Wide D.P. Range**
- **Fully Repairable**
- **RS485, ASCII, MODBUS® Outputs**

APPLICATIONS:

- **PRESSURIZED TANK LEVEL MEASUREMENT**
- **FILTER MONITORING**
- **FLOW MONITORING**
- **CHILLER FLOW**
- **REFRIGERATOR MONITOR**
- **BAG FILTER ALARM**

Sigma Controls introduces the new 9500DP Differential Pressure Transmitter, well suited to many commonly found differential pressure measurement applications. Utilizing a state of the art Piezo resistive media isolated sensor and active temperature compensated microprocessor based electronics, the 9500DP offers significant accuracy and stability gains over more traditional analog designs.

Industry standard 2-wire 4/20ma output is common to all units and digital RS485 data output is optional in a variety of formats: -- Sigma proprietary protocol ‘MVNET; ASCII (which can include pressure and temperature data); and MODBUS® when using the optional MV131 protocol converter.

Digital data transmission offers the ability to link or ‘daisy chain’ up to 256 transmitters on a single cable ‘run’ over a distance of up to 4000 feet offering significant cable and installation cost savings.

Sigma’s MVNET Protocol is digitally compatible with all Myriad monitors and control devices and permits the direct connection of the transmitter to our spread spectrum radio modem for long distance transmission of level signals without the need for an RTU.

SERIES 9500DP MICROPROCESSOR BASED LEVEL TRANSMITTER

SPECIFICATIONS

Ranges: PSID

Overpressure: 1000 PSI

Thermal Limits:
Maximum Operating:-
40°C/85°C (-40°F/185°F)

Compensated:
0°C/50°C (± 32°F/122°F)

Temperature Effects:
± 0.25% output span within compensated range

Accuracy:
= ± 0.2% T.B.

Input/Output:
8 = 36 VDC/
4-20MADC/Digital

Electrical Connection:
Attached four wire 20GA direct burial polyurethane jacketed shielded cable

Cable Color Code:
Black (-)
Red (+) Power
Blue Digital Output 'B'
Yellow Digital Output 'A'

Process Connection: 2 Ea.
316SS 1/4 NPT (F)

Materials of Construction:
316SS body, Buna N 'O' Ring, Neoprene Grommet, 316SS Diaphragm, Polyurethane jacketed cable

Weight:
1.25 LBS.
(without cable)

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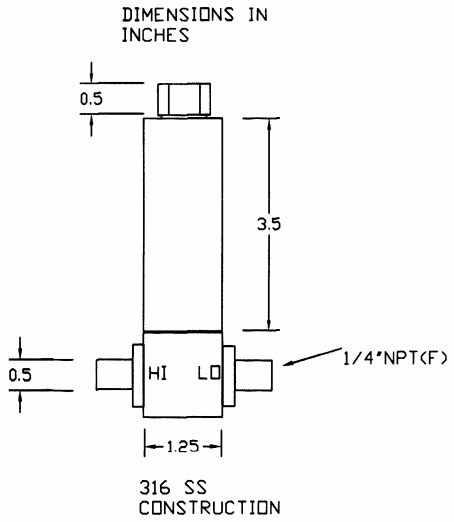
DIMENSIONS



MODEL	MTG	RANGE	I/O	BODY	FILL	OPTIONS	CABLE LENGTH
9500DP	*	*	*	*	*	*	SPECIFY

MODEL
95DP = 316 SS Body

MOUNTING
Pipe

RANGES
005 = 5 PSID
010 = 10 PSID
030 = 30 PSID
100 = 100 PSID

OUTPUT
1 = 4/20MA
2 = 4/20MA and MVNET
3 = 4/20MA and ASCII
4 = 4/20MA and MODBUS®
5 = 4/20MA or Selected Digital Output Only

MATERIALS OF CONSTRUCTION
3 = 316SS Body, 316SS Diaphragm/316SS Connection Buna N 'O' Rings

FILL LIQUID
DS = Silicone 200 Fill Liquid

OPTIONS
CD = 1/2" Conduit Adapter

CABLE LENGTH
Specify Length in Feet

EXAMPLE: 9500DP-005-1-DS-(20)

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