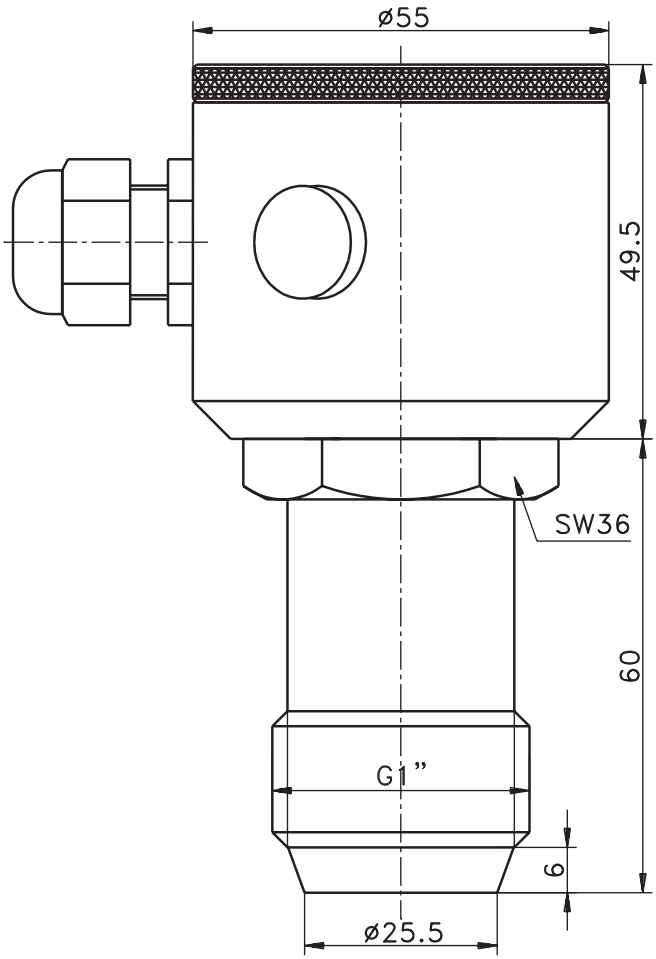
Installation

Attention: The maximum torque for installation is **20Nm**!

Table Overload Stability

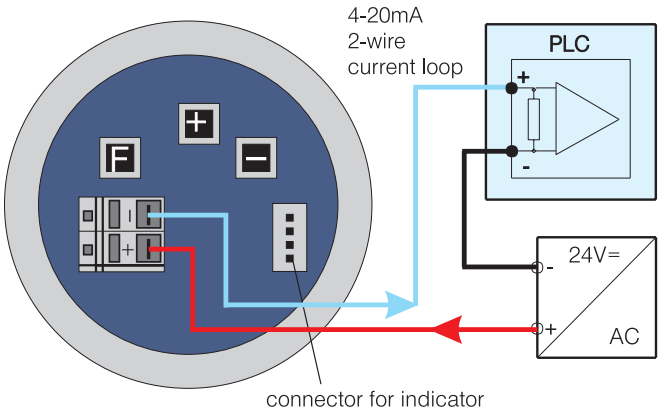
range [bar]	factor	[bar]
0,2	25	5,0
0,4	15	6,0
1,0	10	10,0
2,0	7,5	15,0
4,0	6,25	25,0
10,0	4	40,0
20,0	2	40,0

Dimensioned Drawing DAC-341

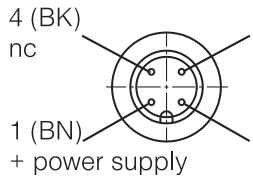


Electrical Connection DAC-341

with cable entry



with M12 Plug-in



N-TOOLS

Additional Products (for more informations: please see separate product informations)

Simulator HSG-3

Alarm Relay VGW-DC

Digital Display DOH-VA

Processor Digital Display PEM-DD

Connection

- plug in the optional indicator module **AZM** (helpful for setting)
- apply supply voltage (12...36V DC), see terminal label
- after a short segment test the indicator shows shortly 'dac', the program-version, 'abs' or 'rel' and the presetted range
- level in % (one digit after decimal point) or pressure in bar (two digits after decimal point) is indicated
- note at level measurement: 0-100% means 4-20mA; this range can be adjusted by the user. If the pressure is indicated in bar, the indicator always shows the pressure measured at the measurement cell. In this kind the range of the indicator can't be adjusted!

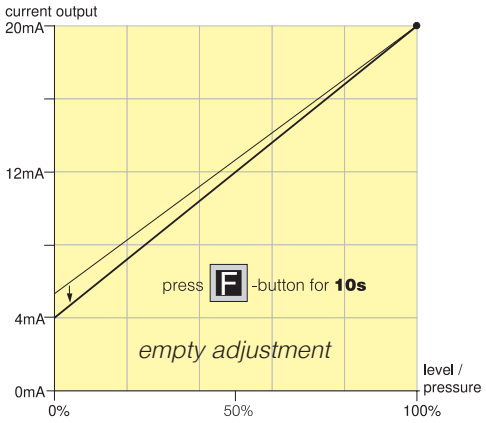
Notes to Setting the Pressure Sensor

The standard setting of the **DAC-341** is following: 0...100,0% of the measurement range (e.g. 0...400mbar) are corresponding to 4-20mA of the current output. If it is necessary to change these settings for special measurement tasks, you have to do following:

1. Empty Adjustment

1.1 Level Measuring

- empty vessel completely
- connect ammeter into the current output loop
- the ammeter displays 4,0mA, the internal indicator, **AZM** displays 0,0%
  In this case no adjustment is necessary
- in other case make the adjustment in the following way:
- press button "**F**" for at least 10 seconds, the indicator shows shortly "Stor",
  the setting is done
- ammeter displays 4,0mA, the internal indicator **AZM** displays 0,0%



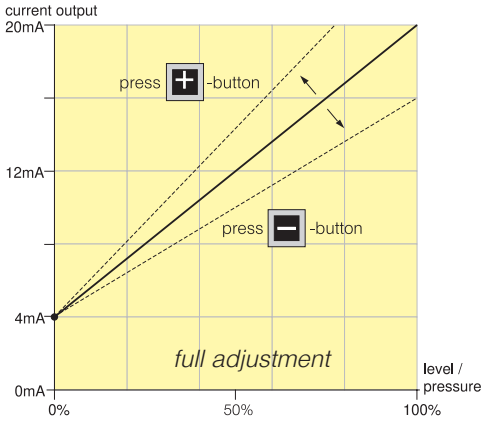
1.2 Process Pressure Measuring (relative / absolute)

- set the pressure to the wished value at 4mA
- connect ammeter into the current output loop
- the ammeter displays 4,0mA
  in this case no adjustment is necessary
- in other case make the adjustment in the following way:
- press button "**F**" for at least 10 seconds. The indicator shows shortly "Stor",
  the setting is done
- ammeter displays 4,0mA

2. Full Adjustment

2.1 Level Measuring

- fill vessel completely (heigth of vessel at least 25% of full range)
- connect ammeter into the current output loop
- the ammeter displays a value lower than 20 mA, e.g. 14 mA, the internal display **AZM** displays a value lower than 100,0
- press button "**+**" or "**-**", until the ammeter displays 20mA and the internal indicator shows 100%
- after about 20 seconds the settings are stored, "Stor" shortly appeares in the display



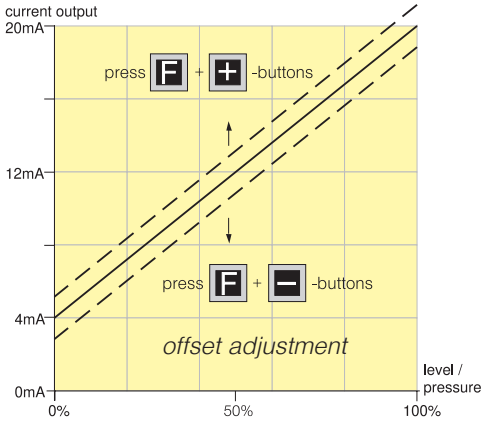
2.2 Process Pressure Measuring (relativ / absolute)

- set the pressure to high-value (at least 25% of full range)
- connect ammeter into the current output loop
- the ammeter displays 20,0mA, the internal indicator **AZM** displays the measured pressure in bar. In this case no adjustment is necessary
- in other case make the adjustment in the following way:
- press button "**+**" or "**-**", until the ammeter displays 20mA
- after about 20 seconds the settings are stored, "Stor" shortly appeares in the display

3. Offset adjustment

- hold "**F**" pressed and modify with "**+**" or "**-**" the standard characteristic parallelly,
  in this way offsets are compensated
- the settings are stored after 20s of the last adjustment, the indicator shows "Stor"

This function is needed very rarely.



4. Reset to standard settings

- press buttons "**F**", "**+**" and "**-**" togehter about 10 seconds. When the indicator displays "rES", the standard settings are stored immediately.

Attention: *All your settings will be deleted with this function . The pressure sensor is set to the standard settings.*

5. Switching the indicator (%, bar)

- by double-pressing the button "**F**" you can switch between the indication in bar and %

READ THIS FIRST

Technical Bulletin

M12 Field Connector Wiring For
SL/SX/LD/LA/HA/RSP/SR/SV/DAC
and CT Transmitters
Revision 2.0 Document 1142

Anderson Instrument Co., Inc.
156 Auriesville Road
Fultonville, NY 12072
Phone: 518-922-5315 or 800-833-0081
Fax: 518-922-8997 or 800-726-6733

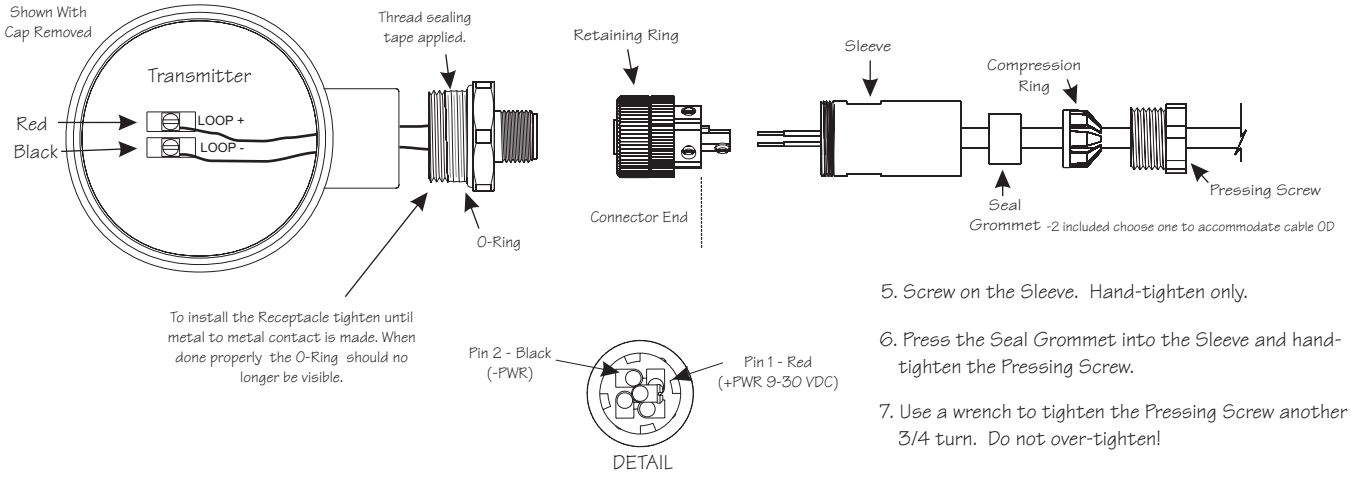
The enclosed transmitter has been equipped with an M12 electrical connector. The information below supersedes any wiring information provided in the owners manual

Field Wireable Connector Assembly

1. Insert cable through Pressing Screw, Compression Ring, Seal Grommet, and Sleeve as shown below.
2. Strip back 1-1/4" of outer sheathing, cut off any excess wires, shield and ground. Strip off 1/4" insulation from remaining two wires. It is not necessary or recommended to tin the wires.
3. Orient Connector end so that center pin connecting screw is horizontal facing right (see detail).

CABLE REQUIREMENTS
- 2 conductor, stranded, 18-24 AWG, shielded with ground.
- 4-8mm (0.16-0.31") Cable Sheath OD

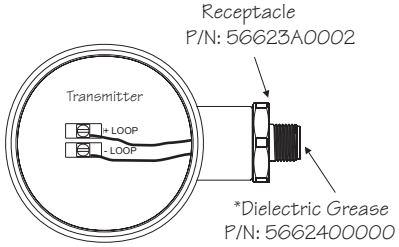
4. Wire LOOP+ (red) wire to top-right terminal, and LOOP- (black) wire to top-left terminal. No connection is made to the center and bottom terminals.



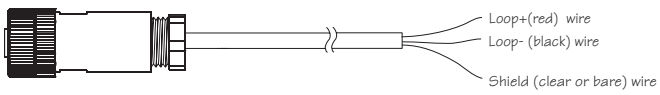
5. Screw on the Sleeve. Hand-tighten only.
6. Press the Seal Grommet into the Sleeve and hand-tighten the Pressing Screw.
7. Use a wrench to tighten the Pressing Screw another 3/4 turn. Do not over-tighten!

Attaching The Connector To The Transmitter

To install connector, simply line up key, press into receptacle, and hand-tighten the retaining ring.



Field Wireable Connector (assembled)
P/N: 42119B0000 (without cable)



Available upgrade kit # 56642A0001
includes: (1) 42119B0000 Connector
(1) 56623A0002 Receptacle
(1) 5662400000 Dielectric grease

*In wet or corrosive environments it is recommended that the receptacle pins be coated with USDA approved dielectric grease to minimize possibility of corrosion.