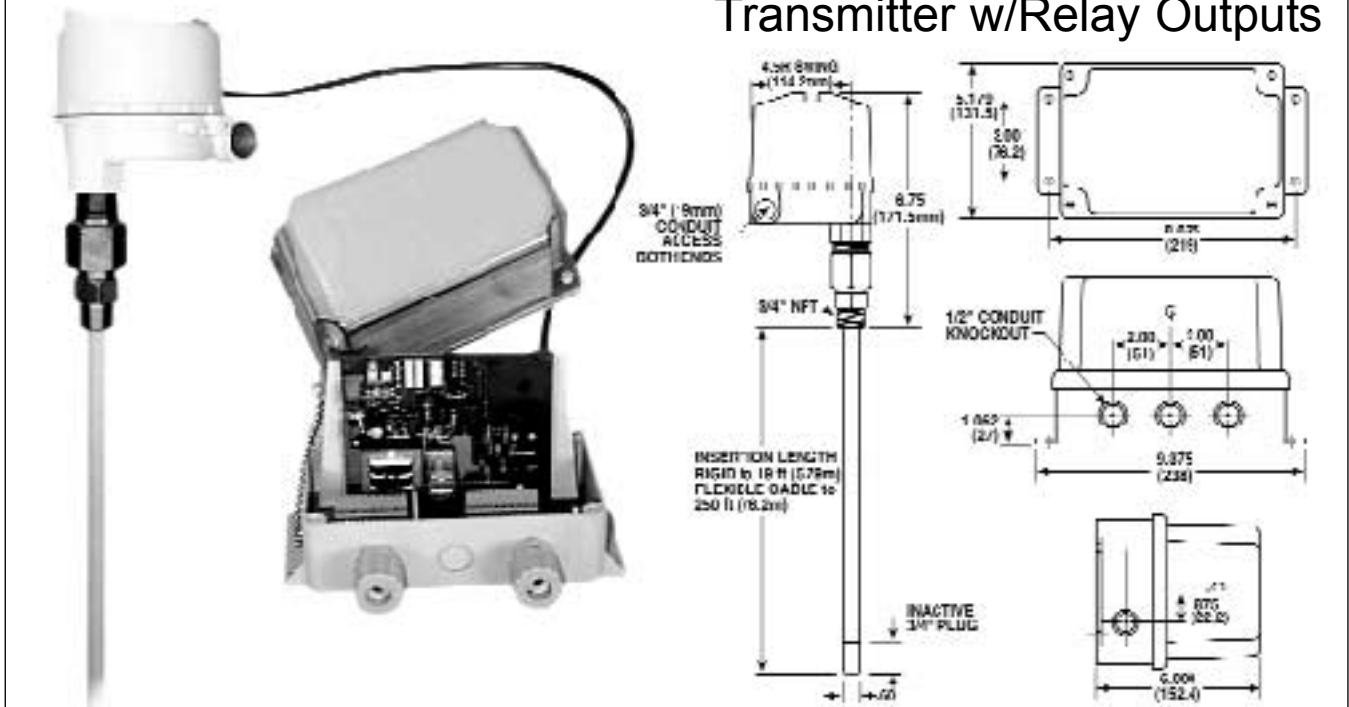


CAP ANALOG 420

DATA SHEET

R.F. Capacitance Remote Transmitter w/Relay Outputs



■ PURPOSE

Delavan's Cap Analog 420 is a completely adjustable remote R.F. Capacitance Transmitter. The 420 system provides a continuous analog signal plus up to two independently adjustable relays. This versatile transmitter can be used in liquids, slurries and most powder bulk solid applications.

■ PRINCIPLE OF OPERATION

Delavan's R.F. capacitance Cap Analog 420 system uses a compact pre-amplifier mounted on the rear of the probe assembly. The pre-amp is housed in a cast aluminum enclosure that is weather-tight and explosion proof. The electronics are located in a remote NEMA 4X enclosure.

The Cap Analog 420, along with its probe sensor, operates as a capacitance sensitive system that converts changes in level to changes in output signal. After calibration, any change in level is recognized and converted to an analog output signal (4-20mA or 0-10 Volts DC). The system will operate any standard 4-20mA DC or 0-10 Volts DC indicator. The Delavan AFI-150 or DFI-150 indicator is available mounted in a rugged NEMA 4X housing.

The Cap Analog 420 system is available without relays or with two relays along with the standard analog outputs. The relay or relays are calibrated independent of the analog circuit.

The Cap Analog 420 is supplied with two 20 turn, ZERO and SPAN adjust potentiometers. These controls are independent and non-interacting. In addition, DIP Switches are provided to extend the range of ZERO and SPAN potentiometers.

■ FEATURES

- Easy access remote mounted electronics
- Universal power supplies
Accepts 115, 230 Volts AC or 24 Volts DC
- Inverted output
Allows the level of the lower dielectric constant to be monitored in liquid interfaces
- Versatile
Analog output plus up to 2 relays
- Relay outputs
Zero and Differential are non-interacting and independent adjustments
- Immune to effects of product build-up
Built-in coating rejection of approximately 1000 micro mho's
- Built-in static suppression
- Up to 800 ft. of cable between probe and electronics



