

FUNCTION

Versa-Cap is a versatile R.F. Capacitance Level Transmitter for liquids, slurries and bulk solid applications.

The sensing probe is energized with an R.F. (radio frequency) signal of approximately 2 mHz. When the process material level changes, a change in capacitance occurs resulting in a very small change in frequency, which is converted to an accurate level reading for measurement and control.

Dela-Cal, Delavan's unique auto calibration feature, offered only in the micro-processor-based Versa-Cap system, allows the unit to be calibrated to the process material with only one level change, 2% of span or greater.

A keypad and an 8-character display ease calibration and allow the user to modify relay control, dead-band, fail-safe, and time delay settings.

FEATURES

- Requires only one level change 2% or greater, for calibration
- · Convenient analog and digital process display
- Keystroke set-up of analog, relay, deadband, time-delay, and fail-safe settings
- Universal Power Supply Accepts 115 Volts, 230 Volts AC or 24 Volts DC
- Independently adjustable relay set-points with differential
- Microprocessor controlled pump sequencing





SPECIFICATIONS

Supply Voltage 115, 230 Volts AC @ 60 Hz

24 Volts DC

Power Consumption 15 volt-amperes

Analog Display Type 12-segment LED bargraph

Digital Display Type 8-digit 0.5" LED

Output 4-20mA Optional 600 ohms max. with 24 Volts DC power

Other Available

Analog Outputs 0-10 Volts DC, 0-5 Volts DC

Sensitivity 0.5 pf or less

Build-Up Tolerance Up to 1,000 micro mho's

Optional Relays 4 Form C DP/PT Time Delay 0-250 seconds

Fail-Safe Selectable High or Low

Temperature Range

(Electronic) -40°F to +160°F

Integral/Pre-Amp

Enclosure Die-cast aluminum with fused

polyester paint finish

Integral/Pre-Amp

Enclosure Rating NEMA 4, 5, 7, 9, 12

Remote Enclosure

(Model 460 only) Fiberglass with Plexi Window

Remote Enclosure Rating

(Model 460 only) NEMA 4X

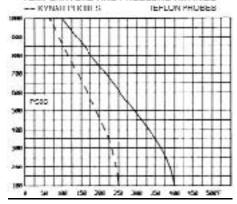
Interconnect

Cable Length (Model 460) 1,200' to Remote Unit

Interconnect

Cable Length (Model 450) 1 mile to PLC or Control

TEMPERATURE AND PRESSURE RATINGS



ORDERING INFORMATION

VERSA-CAP

Special Features = High Temperature 12" Lagging Extension (>200°F)

Interconnect Cable (460 Only) P50 = Standard 50 ft. (160°F max) P100 = Standard 100 ft. (160°F max) B = Bulk, PVC 4-conductor

Process Mounting (Specify Size) NPT = Nat'l Pipe Thread 3A = Food-grade Fitting T3A = Teflon Food-grade Fitting K3A = Kynar Food-grade Fitting FSS = Flange, Stainless Steel

Sensing Probe Type

THD = Teflon Insulated Heavy Duty 1/2" KHD = Kynar Insulated Heavy Duty 1/2" = Teflon Probe with Concentric TCP Pipe and Flange

TCT = Teflon Probe with Concentric Tube 3/4" N.P.T.

= Bare Flexible Cable = Teflon Insulate 1/4"

BHT = Bare Probe - High Temperature Packing

= Teflon Insulated. Flexible Stainless Steel Cable

= Kynar Insulated Flexible Stainless Steel Cable

DWW = Polypropylene Flex Probe, 1/8" Cable, 3/4" N.P.T.

THDD = Teflon Insulated with Insulated Ground Reference 3" Flange

KHDD= Kynar Insulated with Insulated Ground Reference 3" Flange

BHS = Bare Probe - High Sensitivity

Output Options

A = Analog 4-20mA

R = Relay Contacts - (4) SPDT Relays

B = Both Options

Versa-Cap Level Transmitter Model 460 Pre-Amp and Remote Transmitter 450 Integral Transmitter

CSA Approvals (on request)

CSA Approved for Class I — Groups C, D; Class II — Groups E, F, G;

Divisions 1 & 2 when used with THD or KHD probe CSA approved for Ord. Loc.



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