



Ground-Loop Interrupt Flat-Surface Self-cleaning pH and ORP Electrodes

Solves Ground Loop Problems!



Submersion and In-line models

Quick Disconnect Design Saves Time and Money

Installs in Seconds, No Tools Needed

Flat Surface Design Resists Coating

Sends pH Signal Over 300 Feet

Available with or without ATC Elements

The DA series of pH and ORP electrodes are designed to solve operational problems in the presence of stray electrical voltage in solution and electrical ground loops. Installations with plastic tanks and piping are especially susceptible to ground loop problems because of the non-conductive nature of the plastic (cannot serve as earth ground). Dirty motors from pumps or mixers and even conductivity electrodes mounted near pH and ORP electrode can leak voltage into the solution in which pH and ORP are being measured. This voltage damages the reference part of electrodes giving erroneous readings in the application and calibration errors leading to short service life. The DA series electrodes combat ground loop problems by utilizing a solution ground rod that is fed into an internal battery-powered (2 year battery life) differential amplifier. An additional benefit of the amplifier is that it allows long cable runs of over 300ft.

Specifications

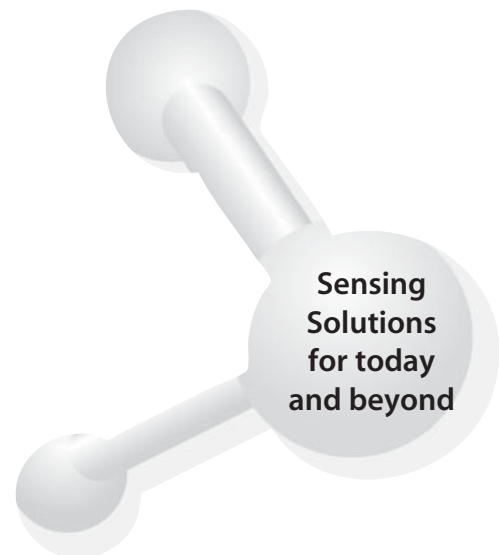
Range: 0-14pH (0-12pH without Na+ error)
+/- 2000mV for ORP

Body material: CPVC

Max Temperature: 75C/170F = 100 psig
81C/180F = 85 psig
100C/212F = 50 psig

Pressure: 0-100 psig (7.5 Bar)

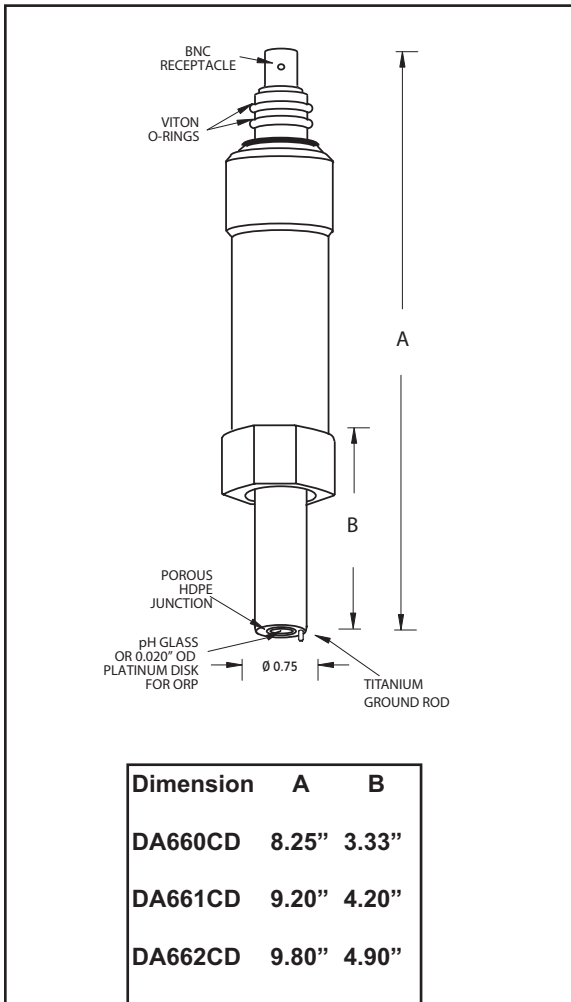
Reference Type: Double Junction



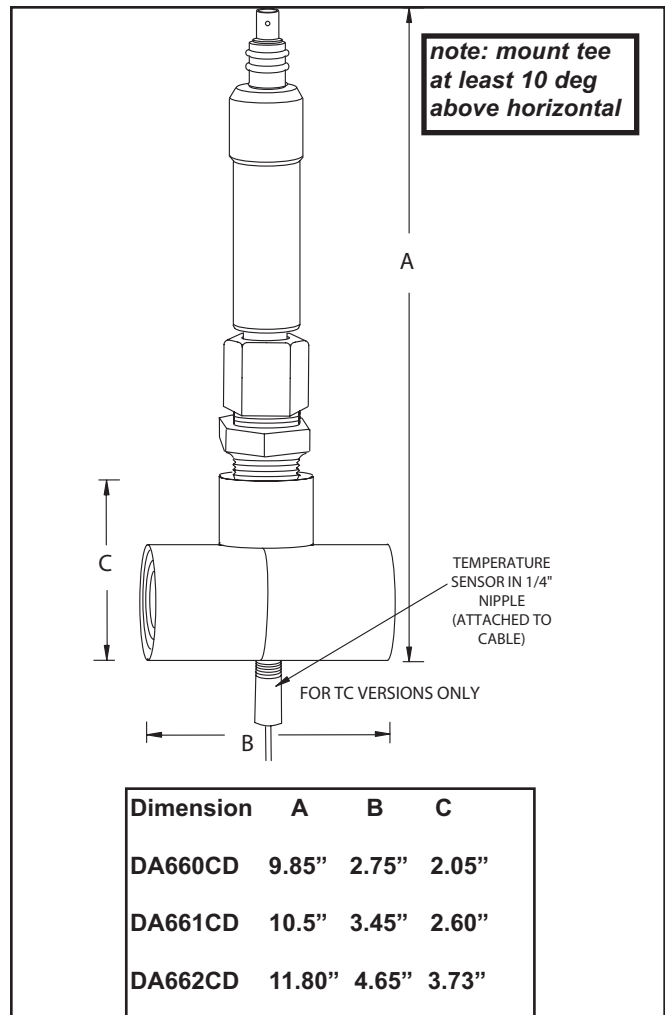
Parts covered by this product data sheet include:
DA650CD, DA650CD-ORP, 970712, DA660CD,
DA660CD-ORP, DA661CD, DA661CD-ORP, DA662CD,
DA662CD-ORP, 970882

PRODUCT SPECIFICATION SHEET

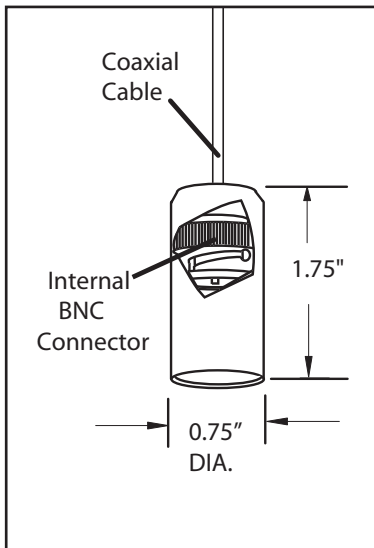
IN-LINE MODELS



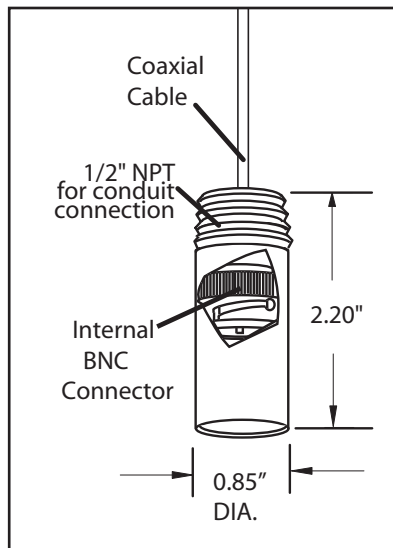
DA660CD, DA661CD and DA662CD IN FLOW CELL WITH TEMPERATURE COMPENSATION



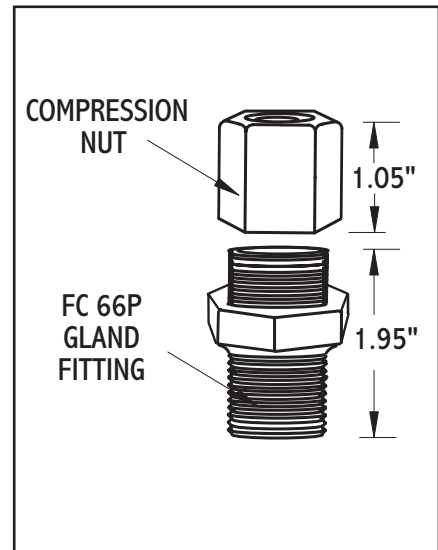
CPVC OR KYNAR CABLE WITHOUT ATC EXPOSED CABLE MOUNTING



CPVC OR KYNAR CABLE WITHOUT ATC WITH CONDUIT CONNECTION

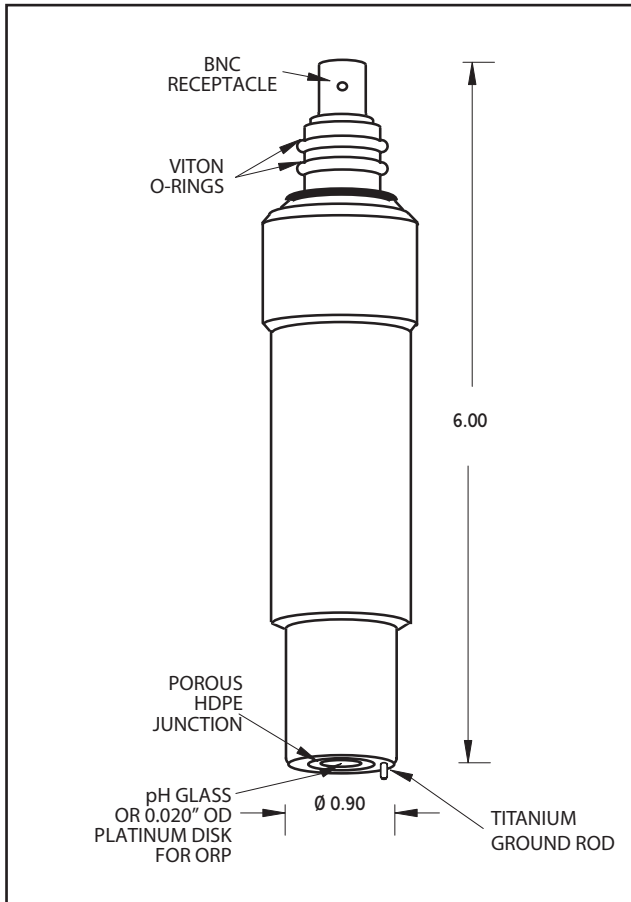


FC66P GLAND AND NUT FITTING FOR IN-LINE INSTALLATION

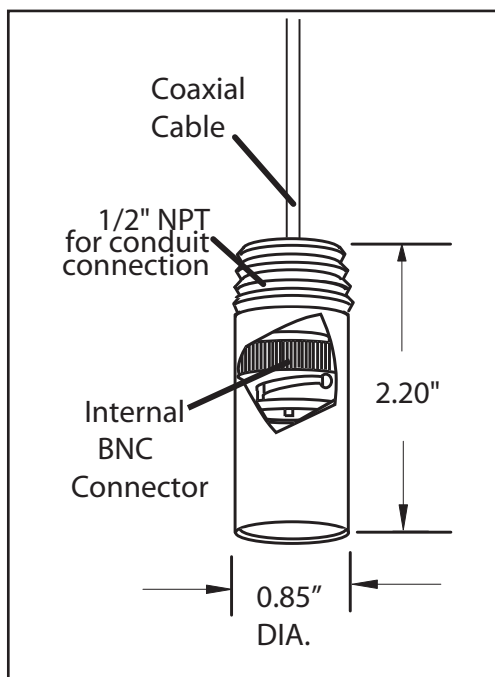
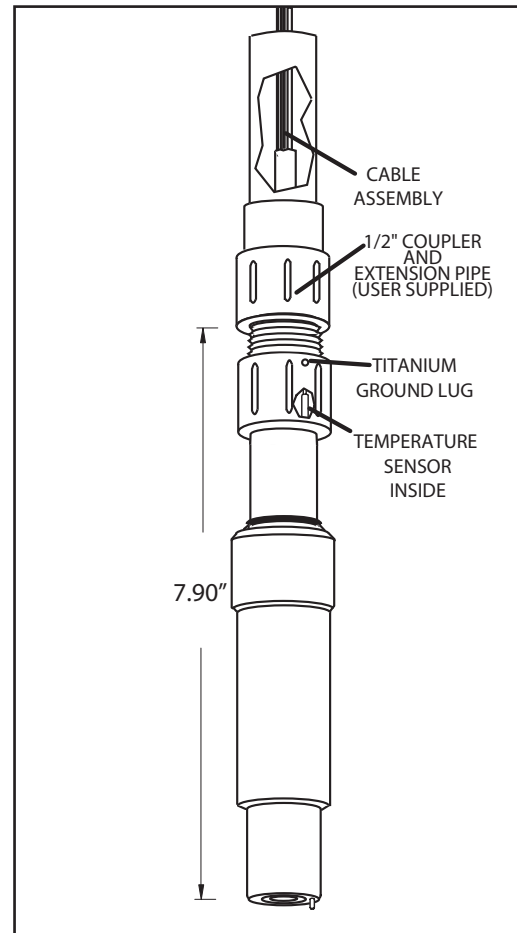




SUBMERSION MODELS



CPVC CABLE WITH ATC



CPVC AND KYNAR(PVDF) CABLES WITHOUT ATC

PRODUCT SPECIFICATION SHEET

ORDERING INFORMATION

SUBMERSION SYSTEMS

Systems without temperature compensation

ORDER 2 ITEMS	DESCRIPTION	CPVC PARTS
1. Select one electrode(pH or ORP)	pH combination electrode pH combination electrode(high temp) ORP combination electrode ORP combination electrode (high temp)	DA650CD 970712 DA650CD-ORP 970882
2. Select one cable assembly	For conduit use	S653-"cable length"-"Connector"

Systems with temperature compensation

ORDER 2 ITEMS	DESCRIPTION	CPVC PARTS
1. Select one electrode(pH or ORP)	pH combination electrode pH combination electrode(high temp) ORP combination electrode ORP combination electrode (high temp)	DA650CD 970712 DA650CD-ORP 970882
2. Select one cable assembly	For conduit use	S653TC-"TC TYPE"-"cable length"-"Connectors"

IN-LINE SYSTEMS

Systems without temperature compensation

ORDER 3 ITEMS	DESCRIPTION	CPVC PARTS
1. Select one flow cell and gland or gland only	Flow cell and gland Gland only(1" and 2" include reducing bushing)	FC66C(3/4"), FC67C(1"), FC68C(2") FC66P, FC67PFC68P
2. Select one electrode	Combination pH electrode ORP combination electrode For conduit use	DA660CD (3/4"), DX661CD(1"), DA662CD(2") DA660CD-ORP(3/4"), DA661CD-ORP(1") DA662CD-ORP(2")
3. Select one cable assembly	For exposed cable use	S653-"cable length"-"connector" S648-"cable length"-"connector"

Systems with temperature compensation

ORDER 3 ITEMS	DESCRIPTION	CPVC PARTS
1. Select one flow cell and gland or gland only	Flow cell and gland Gland only(1" and 2" include reducing bushing)	FC66C(3/4"), FC67C(1"), FC68C(2") FC66P, FC67PFC68P
2. Select one electrode	Combination pH electrode ORP combination electrode	DA660CD (3/4"), DX661CD(1"), DA662CD(2") DA660CD-ORP(3/4"), DA661CD-ORP(1") DA662CD-ORP(2")



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