



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 ft..

Specifications

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

Wetted materials: CPVC, porous HDPE

Min. Temperature 0 deg C / 32 deg F

Max Temperature/
Pressure: 70C(158F)/ 100 psig

Reference Type: Double Junction, Ag/AgCl

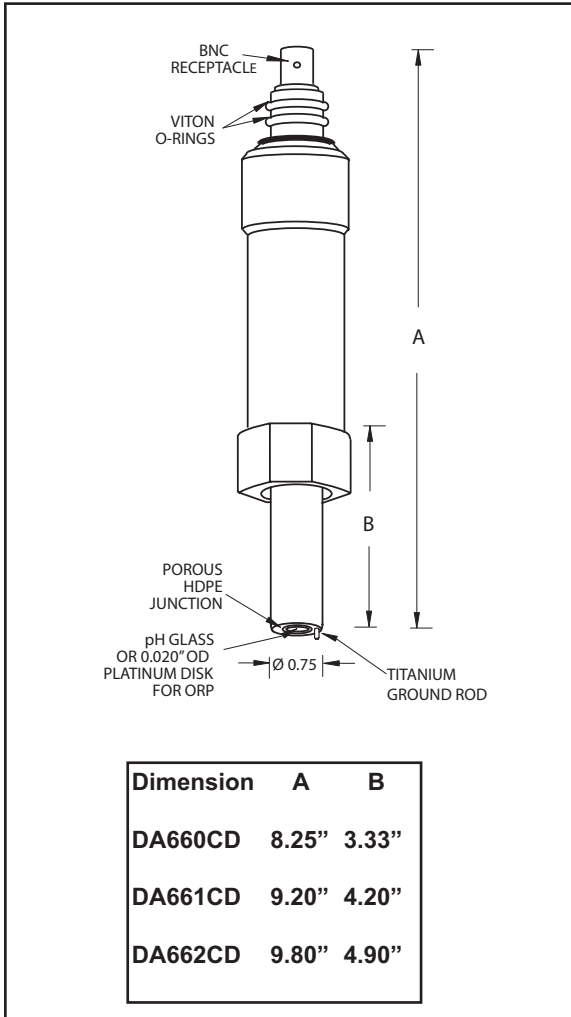


Parts covered by this product data sheet include:
DA650CD, DA650CD-ORP, DA650CD-HT, DA660CD,
DA660CD-ORP, DA661 CD, DA661CD-ORP, DA662CD,
DA662CD-ORP, DA650CD-ORP-HT

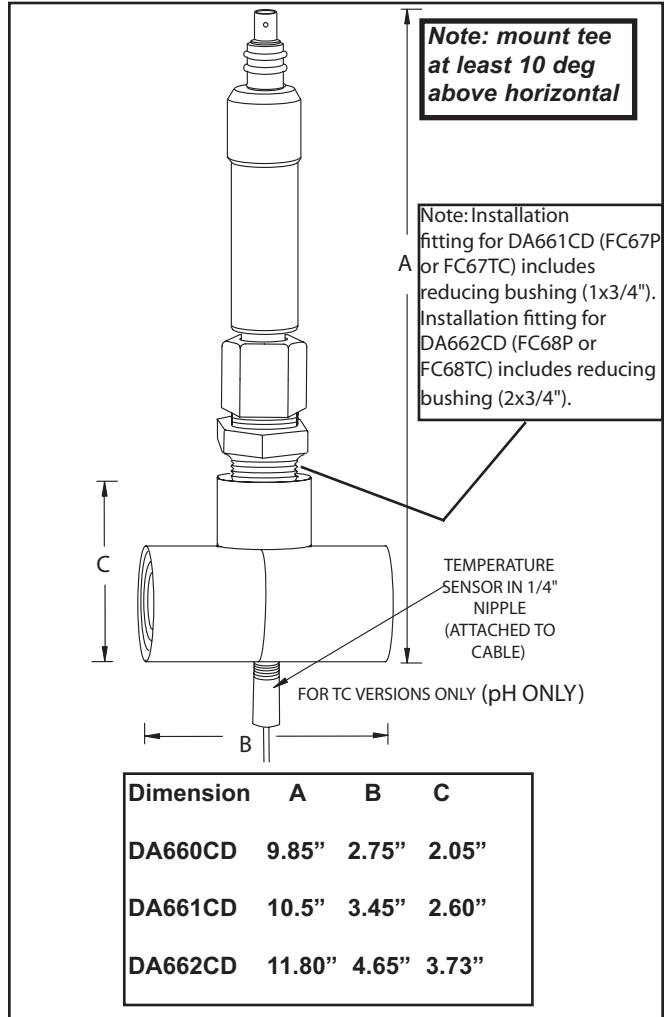
PRODUCT SPECIFICATION SHEET

IN-LINE MODELS

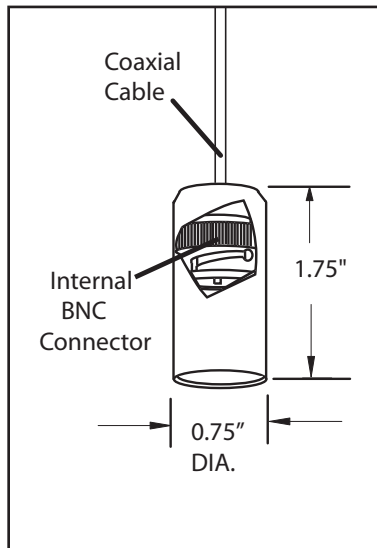
(DA660CD, DA660CD-ORP, DA661CD, DA661CD-ORP, DA662CD, DA662CD-ORP)



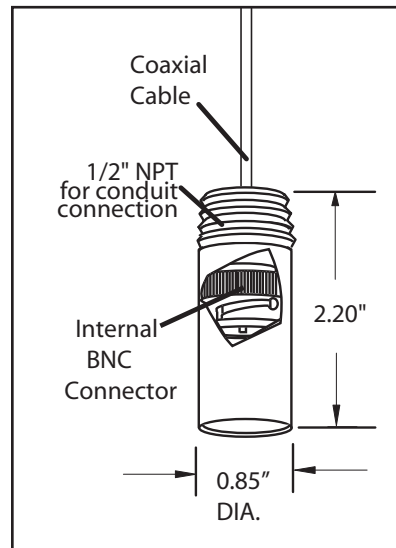
DA660CD, DA661CD and DA662CD IN FLOW CELL WITH OPTIONAL TEMPERATURE COMPENSATION



CPVC OR KYNAR CABLE WITHOUT ATC EXPOSED CABLE MOUNTING (S648)

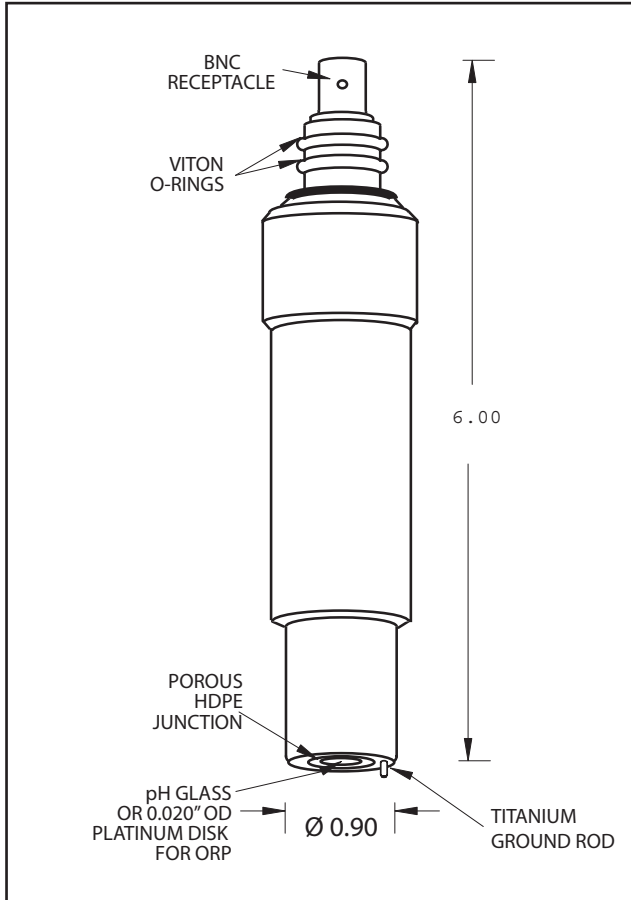


CPVC OR KYNAR CABLE WITHOUT ATC WITH CONDUIT CONNECTION (S653)

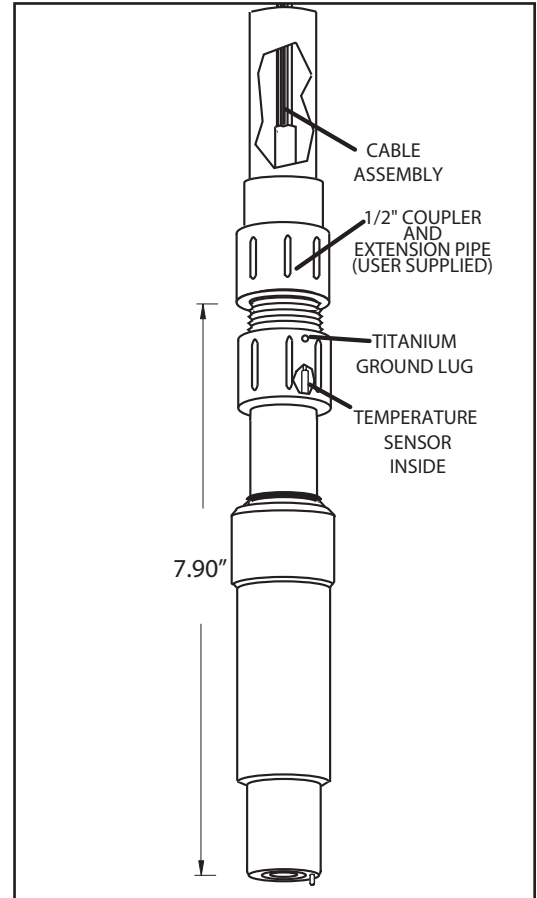




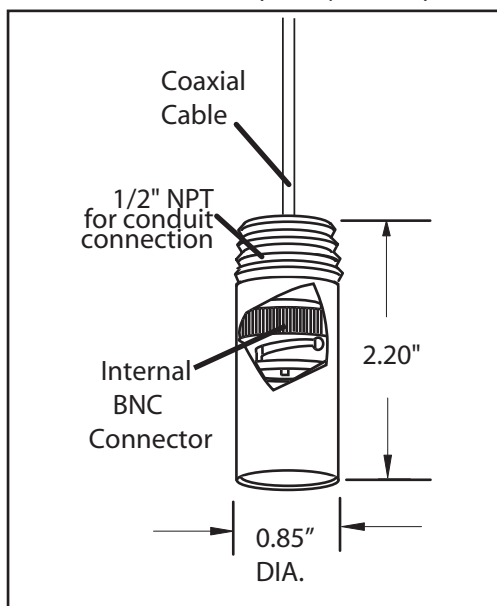
SUBMERSION MODELS (DA650CD, DA650CD-HT, DA650CD-ORP, DA650CD-ORP-HT)



CPVC CABLE WITH ATC (S653TC)



CPVC AND KYNAR(PVDF) CABLES WITHOUT ATC (S653, S653K)



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 DA650CD-HT DA650CD-ORP DA650CD-ORP-HT
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)	DA650CD DA650CD-HT
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, FC67P, FC68P
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")
3. Select one cable assembly	For conduit use 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, gland and cable	Flow cell, gland and cable	FC66TC -"cable length"-"connector"(3/4") FC67TC -"cable length"-"connector"(1") FC68TC -"cable length"-"connector"(2")
2. Select one electrode	Combination pH electrode	DA660CD (3/4"), DA661CD(1"), DA662CD(2")



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