

# Flat-surface, Self-cleaning pH and ORP Electrodes

Insertion/wet-tap pH and ORP electrodes, assemblies and cables



Quick Disconnect Design Saves Time and Money
Installs in Seconds, No Tools Needed
Flat Surface Design Resists Coating
CPVC or PVDF Construction
Available with or without ATC Elements

The insertion assembly allows pH measurements to be made in pressurized tanks and main lines without the need for system shutdown for electrode maintenance. The assembly's adjustable insertion depth allows it to be placed in a turbulent flow region so that it can operate in the self-cleaning mode.

In abrasive applications, the electrode is best positioned even with the pipe or tank wall. High suspended solids and viscous liquid pH measurements are simple with the insertion assembly and electrode pair. A specially designed internal allows the electrode to be mounted in any direction, including inverted. A 1" full-port ball-valve is recommended for installation.

#### **Specifications**

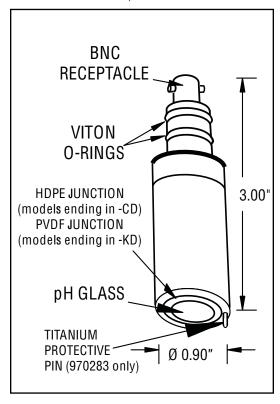
Range	: 0-14pH (0-12 pH without Na+ error) +/- 2000mV for ORP		
Body material	: CPVC or PVDF		
Junction material	: HDPE for CPVC and PVDF for PVDF		
Min Temperature	:10C/50F		
Max Temperature	: 75C/170F 81C/180F 100C/212F	= 100 psig = 85 psig = 50 psig	
Pressure	:0-100 psig (7.5 Bar)-see max temp		
Reference Type	:Double Junction		
Installation	:Insertion, any direction		

Parts covered by this product data sheet include: S675, S676, S677, S675TC, S676TC, S677TC, S655CD, S655CD-HT, S655CD-ORP, S655CD-ORP-HT, S655KD, S655KD-HT, S655KD-ORP, 970283

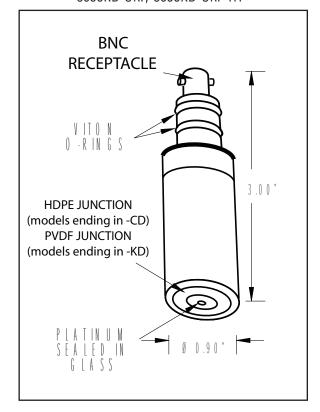


## **CPVC and KYNAR ELECTRODES**

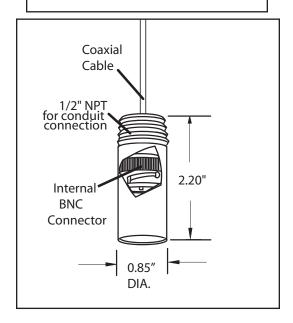
pH - S655CD, S655CD-HT, S655KD, S655KD-HT

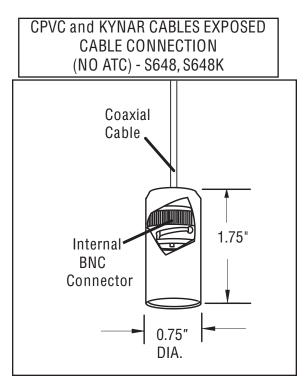


ORP-S655CD-ORP, S655CD-ORP-HT, S655KD-ORP, S655KD-ORP. HT



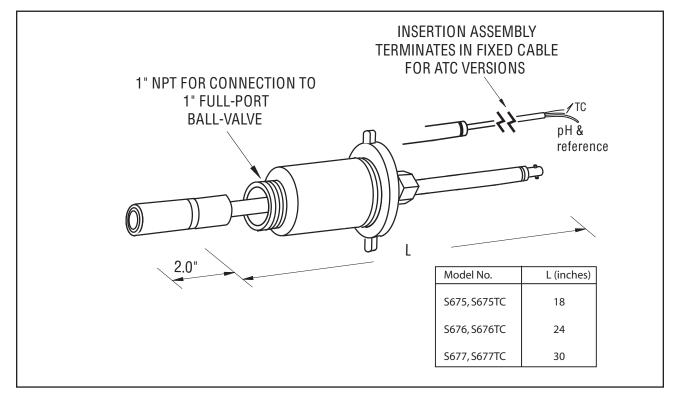
CPVC and KYNAR CABLES WITH CONDUIT CONNECTION (NO ATC) - S653, S653K



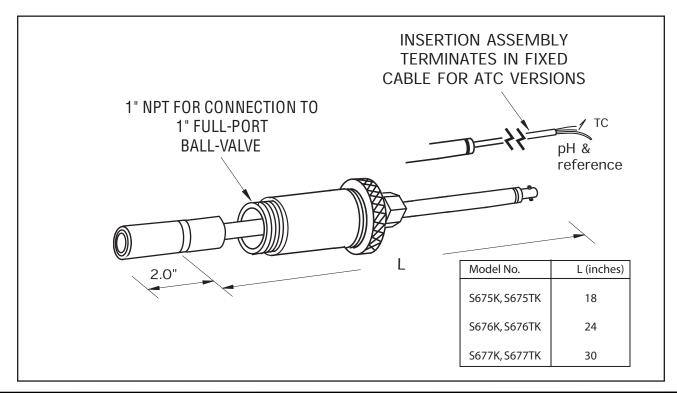




## CPVC pH and ORP Insertion Assemblies (With and Without ATC) -S675, S675TC



PVDF pH and ORP Insertion Assemblies (With and Without ATC)-S675K, S675TK



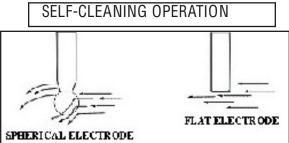
## ORDERING INFORMATION

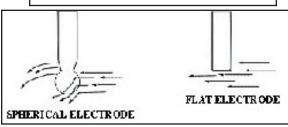
#### Systems without temperature compensation

ORDER 3 ITEMS 1. Select one insertion assembly	DESCRIPTION Insertion assembly 12" depth Insertion assembly 18" depth Insertion assembly 24" depth	CPVC PARTS \$675 \$676 \$677	KYNAR (PVDF) PARTS 8675K N/A N/A
2. Select one electrode (pH or ORP)	pH combination electrode pH combination electrode(high temp) ORP combination electrode ORP combination electrode(high temp)	\$655CD \$665CD-HT \$655CD-ORP N/A	S655KD S655KD-HT S655KD-ORP
3. Select one cable assembly	For conduit use for exposed cable use	S653-"cable length"-"Connector" S648-"cable length"-"Connector"	S653K-"cable length"-"Connector" S648K-"cable length"-"Connector"

#### Systems with temperature compensation

ORDER 2 ITEMS	DESCRIPTION	CPVC PARTS	KYNAR (PVDF) PARTS
1. Select one insertion assembly	Insertion assembly 12" depth	S675TC-"TC TYPE"-"CABLE LENGTH"-"PH CONN"/"TC CONN"	\$675TK
	Insertion assembly 18" depth	S676TC-"TC TYPE"-"CABLE LENGTH"-"PH CONN"/"TC CONN"	N/A
	Insertion assembly 24" depth	S677TC"TC TYPE"-"CABLE LENGTH"-"PH CONN"/"TC CONN"	N/A
2. Select one electrode (pH or ORP)	pH combination electrode pH combination electrode(high temp) ORP combination electrode ORP combination electrode(high temp)	S655CD S655CD-HT S655CD-ORP N/A	\$655KD \$655KD-HT \$655KD-ORP N/A

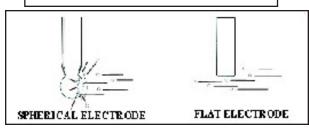




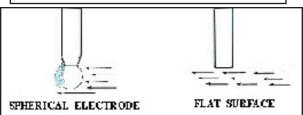


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## ABRASION-FREE OPERATION

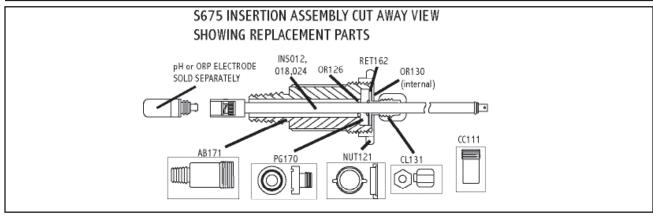


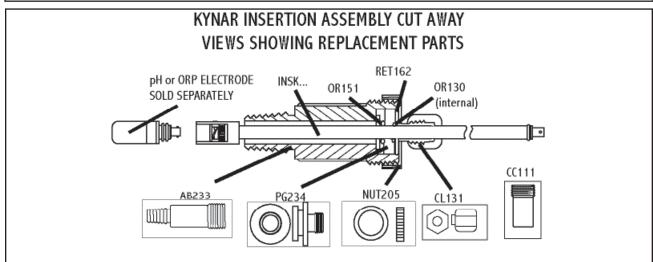
## VISCOUS MATERIAL OPERATION





## ORDERING INFORMATION - REPLACEMENT PARTS





DESCRIPTION	PVC PARTS	KYNAR (PVDF) PARTS
Insertion tube 12" depth (18" length)*	INS012	INS012K
Insertion tube 18" depth (24" length)**	INS018	INS018K
Insertion tube 24" depth (30" length)***	INS024	INS024K
Insertion tube 12" depth*, with ATC	INS012TC	INS012TK
Insertion tube 18" depth**, with ATC	INS018TC	INS018TK
Insertion tube 24" depth***, with ATC	INS024TC	INS024T
Packing gland sliding seal, o-ring	OR130	OR130
Packing gland	PG170	PG234
Adapter Body	AB171	AB233
Retainer Nut	NUT121	NUT205
O-ring face seal (Large ring on PG170 and PG234)	OR126	OR131
Compression Nut and Ferrule	CL131	CL131
Steel Retainer Ring	RET162	RET162
Cable connection (1/2" NPT)	CC111	CC111

Sensing Solutions for today and beyond

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