

SELECTION GUIDE

pH - FF20



Selection Matrix	Description	Spare Part Number
Material of Construction		
FF20-P33-FNU	Polypropylene with 1/2" FNPT Inlet and Outlet	FF20-P33*B
FF20-P33-F1U	Polypropylene with 1", 150# ANSI Flanged Inlet and Outlet	FF20-P33*B/FP4
FF20-P33-F2U	Polypropylene with 1/2", 150# ANSI Flanged Inlet and Outlet	FF20-P33*B/FP3
FF20-S33-FNU	316 Stainless Steel with 1/2" FNPT Inlet and Outlet	FF20-S33*B
FF20-S33-F1U	316 Stainless Steel with 1", 150# ANSI Flanged Inlet and Outlet	FF20-S33*B/FS4
FF20-S33-F2U	316 Stainless Steel with 1/2", 150# ANSI Flanged Inlet and Outlet	FF20-S33*B/FS3
FF20-F33-FNU	PVDF (KYNAR) with 1/2" FNPT Inlet and Outlet	FF20-F33*B
FF20-F33-F1U	PVDF (KYNAR) with 1", 150# ANSI Flanged Inlet and Outlet	FF20-F33*B/FF4
FF20-F33-F2U	PVDF (KYNAR) with 1/2", 150# ANSI Flanged Inlet and Outlet	FF20-F33*B/FF3

Selection Example: FF20-S33-FNU-C02-SC-T

- The following will be included -
- (1) FF20-S33*B
 - (3) WU20-PC02
 - (1) K1500FV (included with fitting)
 - (1) SM21-AL4
 - (1) SR20-AC22
 - (1) SM60-T1

Electrode Cables		
-C02	All Necessary Cables; 2 Meter in Length	
-C05	All Necessary Cables; 5 Meter in Length	
-C10	All Necessary Cables; 10 Meter in Length	

Electrodes		
-SA	Shock-proof Measuring Glass electrode; 0 - 100°C Gel Filled Reference; PTFE Junction; 0-80°C	SM21-AG4 SR20-AP24
-SB	Heavy-Duty Measuring Glass Electrode; 0 - 100°C Gel Filled (PTFE) Double Junction Reference; 0 - 80°C	SM21-AG6 SR20-AP26
-SC	pH - High Temperature Glass; 15 - 130°C KCl Solution Reference; Ceramic Junction; 0 - 120°C	SM21-AL4 SR20-AC22
-SD	Heavy-Duty/High Temp. Measuring Glass electrode; 25 - 130°C KCl Solution Reference; Ceramic Junction; 0 - 120°C	SM21-AL6 SR20-AC22

General pH Applications: pH 2-12 (excursions OK); City Water; Cooling Tower; Wastewater

Hot pH Applications: pH 2-12 (excursions OK); Up to 120°C

Pure Water Applications: Boiler Feedwater; Reverse Osmosis; Demin.

Harsh pH Applications: pH 0-14; Acids and Caustics

Coating pH Applications: Process with Un-dissolved solids

General ORP Applications

Pure Water ORP Applications
*Platinum is Industry standard

Pure Water pH & ORP Applications

pH Compensated ORP Applications

Differential pH Applications *Consult Factory


Differential ORP Applications *Consult Factory

Differential pH/ORP Applications *Consult Factory

General Purpose ECP Applications

-SE	Shock-proof Measuring Glass electrode; 0 - 100°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM21-AG4 SR20-AC32 FP20-S13	(2) WU20-PC10 (1) K1500FV	(2) WU20-PC05 (1) K1500FV	(2) WU20-PC02 (1) K1500FV
-SF	Heavy-Duty Measuring Glass electrode; 0 - 100°C BELLOMATIC Liquid Ceramic Filled Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM21-AG6 SR20-AC32 FP20-S13			
-SG	Heavy-Duty/High Temp. Measuring Glass electrode; 25 - 130°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM21-AL6 SR20-AC32 FP20-S13			
-SJ	Combination pH Measuring Glass and Reference; 0 - 100°C Hastelloy Spray Cleaning System	SC21-AGP26 K1547PA	(1) WU20-LT10 (1) K1500FV	(1) WU20-LT05 (1) K1500FV	(1) WU20-LT02 (1) K1500FV
-SK (OBSOLETE)	ORP Electrode; GOLD; 0 - 130°C Gel Filled Reference; PTFE Junction; 0 - 80°C	SM29-AU8 (OBSOLETE) SR20-AP24			
-SL	ORP Electrode; PLATINUM; 0 - 130°C Gel Filled Reference; PTFE Junction; 0 - 80°C	SM29-PT9 SR20-AP24			
-SM (OBSOLETE)	ORP Electrode; GOLD; 0 - 130°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM29-AU8 (OBSOLETE) SR20-AC32 FP20-S13	(2) WU20-PC10 (1) K1500FV	(2) WU20-PC05 (1) K1500FV	(2) WU20-PC02 (1) K1500FV
-SP	ORP Electrode; PLATINUM; 0 - 130°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM29-PT9 SR20-AC32 FP20-S13			
-SS	pH and ORP Combination Electrode; Glass/PLATINUM; 0 - 100°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SC29-PTG29 SR20-AC32 FP20-S13	(1) WU20-LT10 (1) WU20-PC10 (1) K1500FV	(1) WU20-LT05 (1) WU20-PC05 (1) K1500FV	(1) WU20-LT02 (1) WU20-PC02 (1) K1500FV
-SQ	ORP Electrode; PLATINUM; 0 - 130°C Shock-proof Measuring Glass electrode; 0 - 100°C	SM29-PT9 SM21-AG4			
-ST	Heavy-Duty/High Temp. Measuring Glass electrode; 0 - 130°C pNa Glass Reference (Sodium)	SM21-AL6 SM23-AN4	(2) WU20-PC10 (1) K1500FV	(2) WU20-PC05 (1) K1500FV	(2) WU20-PC02 (1) K1500FV
-SU	ORP Electrode; PLATINUM; 0 - 130°C pNa Glass Reference (Sodium)	SM29-PT9 SM23-AN4			
-SV	pH and ORP Combination Electrode; Glass/PLATINUM; 0 - 100°C pNa Glass Reference (Sodium)	SC29-PTG29 SM23-AN4	(1) WU20-LT10 (1) WU20-PC10 (1) K1500FV	(1) WU20-LT05 (1) WU20-PC05 (1) K1500FV	(1) WU20-LT02 (1) WU20-PC02 (1) K1500FV
-SR	ECP Measuring Electrode - (Copper) BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	S115746 SR20-AC32 FP20-S13			
-SW	ECP Measuring Electrode - (Admiralty Brass) BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	S115746A SR20-AC32 FP20-S13	(2) WU20-PC10 (1) K1500FV	(2) WU20-PC05 (1) K1500FV	(2) WU20-PC02 (1) K1500FV
-SX	ECP Measuring Electrode - (Carbon Steel) BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	S11547B SR20-AC32 FP20-S13			

Temperature Electrode					
-T	Pt1000 RTD Temperature Electrode	SM60-T1	(1) WU20-PC10	(1) WU20-PC05	(1) WU20-PC02
-X	NO Temp. Electrode (Standard for "ORP only" measurements)	N/A	N/A	N/A	N/A

SELECTION GUIDE		Selection Matrix	Description	Spare Part Number	Selection Example:						
<p style="text-align: center;">pH - FD20</p> 		Material of Construction			<p style="text-align: center;">FD20-S37-10-NF-C05P-SC-T</p> <p>The following will be included -</p> <ul style="list-style-type: none"> (1) FD20-S37-10-NF*A (3) WU20-PC05 (1) K1500CJ (1) SM21-AL4 (1) SR20-AC22 (1) SM60-T1 (1) K1500FV 						
		FD20-P37-10-NF	Polypropylene, 1 meter length (3' 3 inches) (NO Flange)	FD20-P37-10-NF*A							
		FD20-P37-10-S2	Polypropylene, 1 meter length (3' 3 inches) (3", 150# Flange)	FD20-P37-10-S2*A							
		FD20-P37-15-NF	Polypropylene, 1.5 meter length (4' 11 inches) (NO FLANGE)	FD20-P37-15-NF*A							
		FD20-P37-15-S2	Polypropylene, 1.5 meter length (4' 11 inches) (3", 150# Flange)	FD20-P37-15-S2*A							
		FD20-S37-10-NF	316 S.S., 1 meter length (3' 3 inches) (NO FLANGE)	FD20-S37-10-NF*A							
		FD20-S37-10-S4	316 S.S., 1 meter length (3' 3 inches) (4", 150# Flange)	FD20-S37-10-S4*A							
		FD20-S37-15-NF	316 S.S., 1.5 meter length (4' 11 inches) (NO FLANGE)	FD20-S37-15-NF*A							
		FD20-S37-15-S4	316 S.S., 1.5 meter length (4' 11 inches) (4", 150# Flange)	FD20-S37-15-S4*A							
		FD20-F37-10-NF	PVDF (KYNAR), 1 meter length (3' 3 inches) (NO Flange)	FD20-F37-10-NF*A							
		FD20-F37-10-S3	PVDF (KYNAR), 1 meter length (3' 3 inches) (3", 150# Flange)	FD20-F37-10-S3*A							
		FD20-F37-15-NF	PVDF (KYNAR), 1.5 meter length (4' 11 inches) (NO Flange)	FD20-F37-15-NF*A							
		FD20-F37-15-S3	PVDF (KYNAR), 1.5 meter length (4' 11 inches) (3", 150# Flange)	FD20-F37-15-S3*A							
		Electrode Cables									
		-C05P	All Necessary Cables; 5 Meter in Length								
-C10P	All Necessary Cables; 10 Meter in Length										
Electrodes											
General pH Applications: pH 2-12 (excursions OK); City Water; Cooling Tower; Wastewater	-SA	Shock-proof Measuring Glass electrode; 0 - 100°C Gel Filled Reference; PTFE Junction; 0-80°C	SM21-AG4 SR20-AP24								
	-SB	Heavy-Duty Measuring Glass Electrode; 0 - 100°C Gel Filled (PTFE) Double Junction Reference; 0 - 80°C	SM21-AG6 SR20-AP26								
Hot pH Applications: pH 2-12 (excursions OK); Up to 120°C	-SC	pH - High Temperature Glass; 15 - 130°C KCl Solution Reference; Ceramic Junction; 0 - 120°C	SM21-AL4 SR20-AC22								
	-SD	Heavy-Duty/High Temp. Measuring Glass electrode; 25 - 130°C KCl Solution Reference; Ceramic Junction; 0 - 120°C	SM21-AL6 SR20-AC22								
Pure Water Applications: Boiler Feedwater; Reverse Osmosis; Demin.	-SE	Shock-proof Measuring Glass electrode; 0 - 100°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM21-AG4 SR20-AC32 FP20-S13	(2) WU20-PC10 K1500FV	(1) K1500CJ	(2) WU20-PC05 K1500FV K1500CK					
Harsh pH Applications: pH 0-14; Acids and Caustics	-SF	Heavy-Duty Measuring Glass electrode; 0 - 100°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM21-AG6 SR20-AC32 FP20-S13								
	-SG	Heavy-Duty/High Temp. Measuring Glass electrode; 25 - 130°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM21-AL6 SR20-AC32 FP20-S13								
Coating pH Applications: Process with Un-dissolved solids	-SJ	Combination pH Measuring Glass and Reference; 0 - 100°C Hastelloy Spray Cleaning System	SC21-AGP26 K1547PA	(1) WU20-LT10 (1) K1500FV K1400CJ		(1) WU20-LT05 (1) K1500FV K1500CK					
General ORP Applications	-SK (OBSOLETE)	ORP Electrode, GOLD; 0 - 130°C Gel Filled Reference; PTFE Junction; 0 - 80°C	SM29-AU8 (OBSOLETE) SR20-AP24								
	-SL	ORP Electrode; PLATINUM; 0 - 130°C Gel Filled Reference; PTFE Junction; 0 - 80°C	SM29-PT9 SR20-AP24								
Pure Water ORP Applications *Platinum is Industry standard	-SM (OBSOLETE)	ORP Electrode; GOLD; 0 - 130°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM29-AU8 (OBSOLETE) SR20-AC32 FP20-S13	(2) WU20-PC10 K1500FV	K1500CJ	(2) WU20-PC05 K1500FV K1500CK					
	-SP	ORP Electrode; PLATINUM; 0 - 130°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SM29-PT9 SR20-AC32 FP20-S13								
Pure Water pH & ORP Applications	-SS	pH and ORP Combination Electrode; Glass/PLATINUM; 0 - 100°C BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	SC29-PTG29 SR20-AC32 FP20-S13	(1) WU20-LT10 WU20-PC10 K1500FV	(1) K1500CJ	(1) WU20-LT05 WU20-PC05 K1500FV K1500CK					
pH Compensated ORP Applications	-SQ	ORP Electrode; PLATINUM; 0 - 130°C Shock-proof Measuring Glass electrode; 0 - 100°C	SM29-PT9 SM21-AG4								
Differential pH Applications *Consult Factory	-ST	Heavy-Duty/High Temp. Measuring Glass electrode; 0 - 130°C pNa Glass Reference (Sodium)	SM21-AL6 SM23-AN4	(2) WU20-PC10 K1500FV	(1) K1500CJ	(2) WU20-PC05 K1500FV K1500CK					
Differential ORP Applications *Consult Factory	-SU	ORP Electrode; PLATINUM; 0 - 130°C pNa Glass Reference (Sodium)	SM29-PT9 SM23-AN4								
Differential pH/ORP Applications *Consult Factory	-SV	pH and ORP Combination Electrode; Glass/PLATINUM; 0 - 100°C pNa Glass Reference (Sodium)	SC29-PTG29 SM23-AN4	(1) WU20-LT10 WU20-PC10 K1500FV	(1) K1500CJ	(1) WU20-LT05 WU20-PC05 K1500FV K1500CK					
General Purpose ECP Applications	-SR	ECP Measuring Electrode - (Copper) BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	S115746 SR20-AC32 FP20-S13								
	-SW	ECP Measuring Electrode - (Admiralty Brass) BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	S115746A SR20-AC32 FP20-S13								
	-SX	ECP Measuring Electrode - (Carbon Steel) BELLOMATIC Liquid Filled Ceramic Reference; 0 - 120°C Mounting Kit for BELLOMATIC	S11547B SR20-AC32 FP20-S13								
Temperature Electrode											
-T	Pt1000 RTD Temperature Electrode	SM60-T1	(1) WU20-PC10			(1) WU20-PC05					
-X	NO Temp. Electrode (Standard for "ORP only" measurements)	N/A	N/A			N/A					