(주)엠씨마스터스
MC Masters
Measurement & Control

FLS pH/ORP 600
C-PVC BODY FLAT SURFACE ELECTRODE

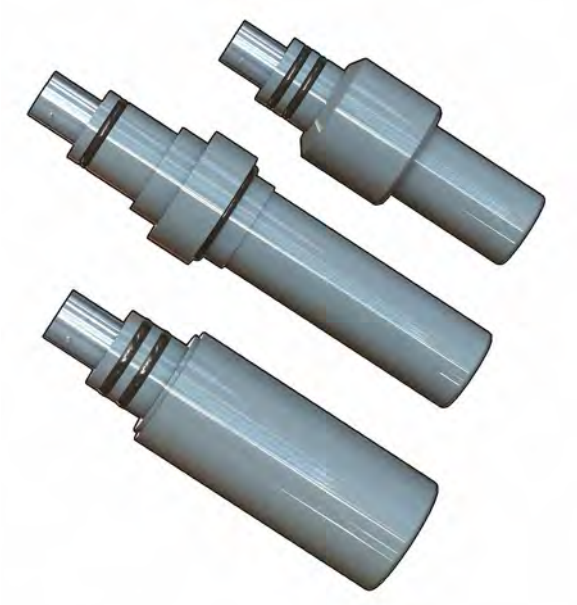
자가 청소 효과가 개선된 기존 플랫 전극의 견고한 버전입니다.
빠른 분리 BNC 커넥터 때문에 설치 및 유지 보수가 쉽습니다.
전극 본체에 내장된 밀봉된 젤로 채워진 이중 접합 기준 설계 디자인입니다.
이 설계는 기준 측 오염에 대한 추가적인 장벽을 제공하고 전극 수명을 연장하는 심각한 용도에 전극을 사용할 수 있도록 합니다.
pH-반응 평판 유리 표면은 측정 표면의 중앙에 배치되고 평평한 다공성 플라스틱 기준 접합부에 둘러싸여 있어 샘플 접촉이 매우 우수합니다.
장거리 연결을 위한 증폭된 신호와 접지 액체에 대한 금속 핀이 포함된 버전입니다.
광범위한 설치 부속품은 라인, 잠수 또는 핫 탭 설치가 가능합니다.

응용

- 물 및 폐수 처리
- 사전 염화 및 탈염
- 중화 시스템
- 수질 모니터링
- 오존처리
- 냉각기
- 보일러 설비
- 표백제 생산
- 펄프 표백
- 양식업
- 과일 및 채소 세척
- 섬유 염료 공정

주요 특징

- pH 및 ORP 버전
- 플랫 전극
- 이중 접합 기술
- 대형 젤 레퍼런스 볼륨
- 공정 오염으로부터 높은 보호
- 쉽고 빠른 설치 시스템
- BNC 커넥터
- 라인, 잠수 또는 핫 탭 설치
- 저비용 부속품
- 내부에 HF(최대 2%)가 있는 액체의 경우 HF 옵션(pH)
- 순수 요청시 LC 옵션 (pH) (<100 µS / cm))
- 신호 증폭으로 인한 표류 전류 또는 장거리 DA 옵션



기술 데이터

General

• Operating Range:
- pH Electrodes: 0 - 14 pH (0 - 12.3 pH without Na+ error)
- ORP Electrodes: ± 2000 mV
• Pipe Size Range: DN15 to DN100 (0.5” to 4”)
• Zero voltage point new electrode performances: 7.00pH ± 0.2pH
• Efficiency new electrode performances: > 97% @ 25°C (77°F)
• Response time new electrode performances:
- pH: < 6 sec for 95% of signal change
- ORP: application dependent
• Reference
- type: sealed double junction
- electrolyte: Solidified Gel 3.5M KCl 0.1M KCl for LC electrode version / solidified gel KCl 3.5M
- secondary junction: Nylon filament
- wire: Ag/AgCl.
• Process Connection:
- In-line installation:
threaded nipple ½”, ¾”
FLS installation fittings
- submersible installation
- hot-tap installation

• Max Working pressure/ working temperature:
- 6,7bar@75°C (100psi@170°F)
- 5,7bar@81°C (85psi@180°F)
• Wetted materials:
- body: C-PVC (PVDF only on request)
- reference Junction: porous HDPE
- sensing surface: glass membrane (pH),platinum sealed in glass (ORP)
• O-ring: FPM (Viton)

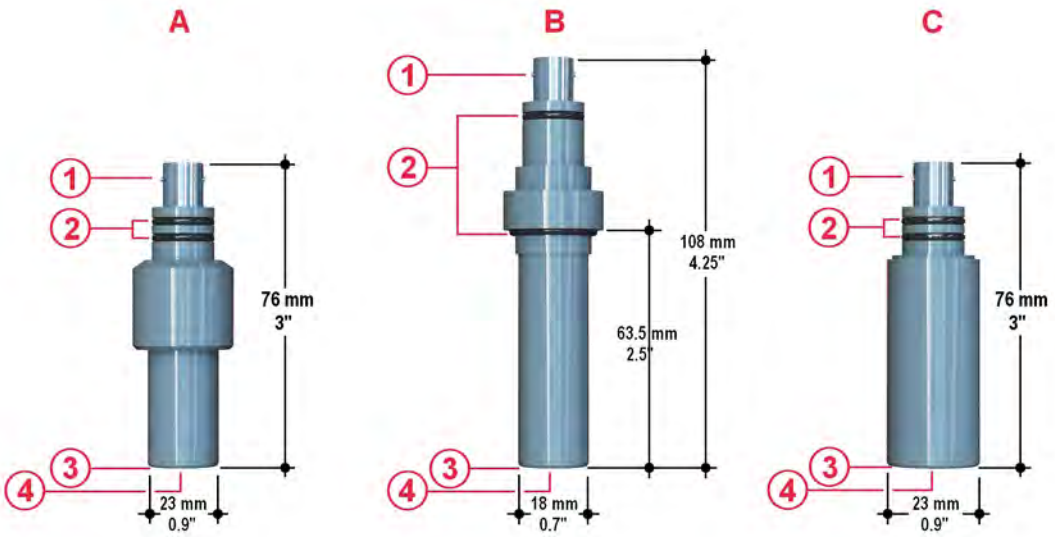
Standards & Approvals

• Manufactured under ISO 9001
• Manufactured under ISO 14001
• CE
• EAC

Specific for pH-ORP.600							
Model	Body	Junction material/type	Reference solution	Sensing surface	O-ring	Connection	Max working pressure @ working temperature
PH660CD	C-PVC	HDPE porous/ D.J.	3,5M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
ORP660CD	C-PVC	HDPE porous/ D.J.	3,5M KCl	platinum	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH650CD	C-PVC	HDPE porous/ D.J.	3,5M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
ORP650CD	C-PVC	HDPE porous/ D.J.	3,5M KCl	platinum	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH655CD	C-PVC	HDPE porous/ D.J.	3,5M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
ORP655CD	C-PVC	HDPE porous/ D.J.	3,5M KCl	platinum	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)

Specific for pH-ORP.600							
Model	Body	Junction material/type	Reference solution	Sensing surface	O-ring	Connection	Max working pressure @ working temperature
PH660CDHF	C-PVC	HDPE porous/ D.J.	3,5M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH650CDHF	C-PVC	HDPE porous/ D.J.	3,5M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH655CDHF	C-PVC	HDPE porous/ D.J.	3,5M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH660CDDA	C-PVC	HDPE porous/ D.J.	3,5M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
ORP660CDDA	C-PVC	HDPE porous/ D.J.	3,5M KCl	platinum	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH650CDDA	C-PVC	HDPE porous/ D.J.	3,5M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
ORP650CDDA	C-PVC	HDPE porous/ D.J.	3,5M KCl	platinum	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH660CDLC	C-PVC	HDPE porous/ D.J.	0,1M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH650CDLC	C-PVC	HDPE porous/ D.J.	0,1M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)
PH655CDLC	C-PVC	HDPE porous/ D.J.	0,1M KCl	flat glass membrane	FPM	Twist-Lock (BNC)	6,7bar@75°C (100psi@170°F)

치수



A Submersible PH650, ORP650
B In-line PH660, ORP660
C Insertion/Hot-tap PH655, ORP655

1 BNC receptacle
2 Viton O-rings
3 Porous HDPE junction
4 pH glass or platinum

주문 데이터

ORP6XX CD Flat surface electrodes						
Part No.	Description /Name	Applications/ Operative Range	Cable (sold separately)	Connection	Installation	Weight (gr.)
ORP660CD	C-PVC Double Junction ORP Combination Flat surface Electrode	-	CN653	Twist-Lock (BNC)	EG66P, MK660	100
ORP650CD	C-PVC Double Junction ORP Combination Flat surface Electrode	-	CN653/CN653 TC1	Twist-Lock (BNC)	MIFV20X05, MIMC20X05	100
ORP655CD	C-PVC Double Junction ORP Combination Flat surface Electrode with pressurized filling gel	-	CN653	Twist-Lock (BNC)	WT675, WT675TC1	100
ORP660CDDA	Ground Loop interrupt Flat Surface pH/ORP combination Electrode	Presence of stray currents/ Signal amplified	CN653	Twist-Lock (BNC)	EG66P, MK660	200
ORP650CDDA	Ground Loop interrupt Flat Surface pH/ORP combination Electrode	Presence of stray currents/ Signal amplified	CN653/CN653 TC1	Twist-Lock (BNC)	MIFV20X05, MIMC20X05	200

주문 데이터

pH6XX CD Flat surface electrodes						
Part No.	Description / Name	Applications/ Operative Range	Cable (sold separately)	Connection	Installation	Weight (gr.)
PH660CD	C-PVC Double Junction pH Combination Flat surface Electrode	-	CN653	Twist-Lock (BNC)	EG66P, MK660	100
PH650CD	C-PVC Double Junction pH Combination Flat surface Electrode	-	CN653/CN653TC1	Twist-Lock (BNC)	MIFV20X05, MIMC20X05	100
PH655CD	C-PVC Double Junction pH Combination Flat surface Electrode with pressurized filling gel	-	CN653	Twist-Lock (BNC)	WT675, WT675TC1	100
PH660CDHF	C-PVC Double Junction pH Combination Flat surface Electrode	Liquids with HF (max 2%)	CN653	Twist-Lock (BNC)	EG66P, MK660	100
PH650CDHF	C-PVC Double Junction pH Combination Flat surface Electrode	Liquids with HF (max 2%)	CN653/CN653TC1	Twist-Lock (BNC)	MIFV20X05, MIMC20X05	100
PH655CDHF	C-PVC Double Junction pH Combination Flat surface Electrode with pressurized filling gel	Liquids with HF (max 2%)	CN653	Twist-Lock (BNC)	WT675, WT675TC1	100
PH660CDDA	Ground Loop interrupt Flat Surface pH combination Electrode	Presence of stray currents/ Signal amplified	CN653	Twist-Lock (BNC)	EG66P, MK660	200
PH650CDDA	Ground Loop interrupt Flat Surface pH combination Electrode	Presence of stray currents/ Signal amplified	CN653/CN653TC1	Twist-Lock (BNC)	MIFV20X05, MIMC20X05	200
PH660CDLC	C-PVC Double Junction pH Combination Flat surface Electrode	Liquids with low conductivity (10 µS/cm <conductivity<100µS/cm)	CN653	Twist-Lock (BNC)	EG66P, MK660	100
PH650CDLC	C-PVC Double Junction pH Combination Flat surface Electrode	Liquids with low conductivity (10 µS/cm<conductivity<100µS/cm)	CN653/CN653TC1	Twist-Lock (BNC)	MIFV20X05, MIMC20X05	100
PH655CDLC	C-PVC Double Junction pH Combination Flat surface Electrode with pressurized filling gel	Liquids with low conductivity (10 µS/cm<conductivity<100µS/cm)	CN653	Twist-Lock (BNC)	WT675, WT675TC1	100