SANITARY STYLE SENSOR

CONVERTIBLE STYLE SENSOR

Practical Measuring Range: 200 microSiemens/cm to 2,000,000 microSiemens/cm

Operating Temperature Range:
-10 to 200°C (14 to 392°F): Limited only sensor body material and mounting hardware: see below

Flow Rate
3m (10 ft) per second, maximum

Temperature Compensator
PT 1000 RTD

Sensor Cable
Polypropylene and PVDF Sensors:
5 conductor (plus two isolated shields) cable with XLPE (Cross linked polyethylene) jacket; rated to 150°C (302°F); 6m (20ft.) long

Peek and PFA Teflon sensors:
5 Conductor (plus two isolated shields) cable with Teflon coated jacket; rated to 200°C (392°F); 6m (20ft.) long

**NOTE:**

1. DIMENSIONS ARE IN INCHES
2. TOLERANCES:
   - XX = .01
   - XXX = .005
   - ANGLES = .25°
NOTES:
1. MATERIAL:
   TEE - 316 STAINLESS STEEL
   CLAMP - 304 STAINLESS STEEL

2. NO GASKETS PROVIDED WITH THIS KIT,
   PROBE GASKET COMES WITH PROBE.

3. CLAMP & TEE CONFORM TO PROVISIONS OF
   3-A SANITARY STANDARDS.

4. DIMENSIONS ARE IN INCHES

TEMPERATURE AND PRESSURE RATINGS FOR CONDUCTIVITY
PROBES WITH STAINLESS STEEL SANITARY MOUNTING HARDWARE

WITH POLYPROPYLENE CONDUCTIVITY SENSOR

WITH PVC CONDUCTIVITY SENSOR

WITH PFA TEFLON CONDUCTIVITY SENSOR

MH01858SZ (SS316)
SANITARY MOUNT

HEAVY DUTY CLAMP

2" SANITARY SS TEE

D.\ C.\ B.\ A.

A. S.HEET 2 OF 8

MH3700
NOTE:
1. DIMENSIONS ARE IN INCHES
NOTES:
1. ALL MATERIAL OF MH518N3NZ IS STAINLESS STEEL 316.
2. MATERIAL
   O-RING - VITON
   STRAIN RELIEF - PVC
3. ALL MATERIAL OF MH538N3NZ IS CPVC EXCEPT O-RING & STRAIN RELIEF
4. ALL MATERIAL OF MH568N3NZ IS PVDF EXCEPT O-RING & STRAIN RELIEF
5. DIMENSIONS ARE IN INCHES
NOTE:

1. DIMENSIONS ARE IN INCHES.

NYLON STRAIN RELIEF

PVC FITTING

PVC JUNCTION BOX

PVC FITTINGS

1/2" CPVC SCHEDULE 80 PIPE

CLEARANCE REQUIRED FOR PROBE REMOVAL

IMMERSION MOUNT

Immersion mount
MH432G (CPVC Pipe)
MH462G (PVDF Pipe)
23.00

4.00

MAXIMUM INSERTION DEPTH OF CONDUCTIVITY PROBE (PROBE NOT INCLUDED)

VALVE HANDLE PROTRUDES 5.60 PAST VALVE BODY WHEN IN THE CLOSED POSITION

NOTES:
1. DIMENSIONS ARE IN INCHES.
2. ALL EXTERNAL PARTS ARE STAINLESS STEEL EXCEPT AS NOTED
3. TEMPERATURE RANGE: -5°C TO 95°C (23°F TO 203°F)
4. MAXIMUM PRESSURE: 5.5 BAR AT 95°C (80PSI AT 203°F)
MH138M9NZ (CPVC) - INSERSION MOUNT

NOTES:
1. DIMENSIONS ARE IN INCHES.
2. ALL EXTERNAL PARTS ARE CPVC EXCEPT AS NOTED
3. TEMPERATURE RANGE, UNSUPPORTED
   INSTALLED VERTICALLY: -5°C TO 80°C (23°F TO 176°F)
4. MAXIMUM PRESSURE: 5.5 BAR AT 90°C (50PSI AT 194°F)
5. INSTALLED WITH SUPPORT BRACKET: -5°C TO 95°C (23°F TO 203°F)
Engineering Specifications

1. The electrodeless conductivity sensor shall measure from 0-200 to 0-200000 microSiemens/cm, and shall have a built-in Pt 1000 RTD element to compensate measured conductivity for changes in process temperature.

2. The sensor shall be constructed of only one wetted body material which shall be Polypropylene, PVDF, PEEK, or PFA teflon.

3. The sensor cable shall be water resistant and rated to 150°C (302°F) for Polypropylene and PVDF sensors or 200°C (392°F) for PEEK and PFA Teflon sensors.

4. The sensor shall have a 1/2-inch nominal diameter bore for operation in slurries.

5. The sensor shall be a:
   a) Convertible style that can be directly fastened onto the end of a pipe for immersion mounting or, by using a special Hach union-mount adapter, mounted into any 2-inch NPT fitting (tee, weldolet, pipe saddle, etc.). The convertible style sensor can also be insertion mounted into a 2-inch ball valve assembly.
   b) Sanitary style with materials that conform to the provisions of 3-A Sanitary Standards to withstand CIP cleaning, and with an integral 2-inch sanitary-mount flange to mount into a standard 2-inch sanitary tee.

6. The sensor shall be Hach Company 3700 sc or 3700 Inductive Conductivity Sensor.