

Industrial Conductivity Transmitter

Model: MDCN2014

Applications

- Municipal and industrial water treatment in wastewater treatment plants
- Drinking and bathing water monitoring
- Pharmaceutical water
- Cooling tower control
- RO units(reverse osmosis)
- Process industry: Chemical/petro chemical,
- food and beverage, offshore oil rigs, pulp and paper, environmental
- technology, machine building and general plant construction

Special features

- Accuracy 1%F.S
- Measuring range 0.00 μ S ... 20000 μ S
- Best accuracy, reproducibility and long-term stability
- Local zero and span adjustments
- Automatic temperature compensation
- Intrinsically safe and explosion proof (option)
- with HART, PROFIBUS PA, FOUNDATION Fieldbus (option)

Description

- | | |
|--|---|
| ■ Accuracy class | 1% F.S |
| ■ Accuracy stability | Accuracy will be held for the nominal range for a minimum of 1 years |
| ■ Measuring range | Conductivity:0 ~ 20 μ S/cm (K = 0.01)
20 ~ 200 μ S/cm (K = 0.1)
200 μ S/cm ~ 4 mS/cm (K = 1.0)
4 ~ 20.0mS/cm(K = 10.0)
20 ~ 200.0mS/cm; (K = 30.0)
TDS: 0 ~ 100000mg/L |
| ■ Resolution | Conductivity:0.01 μ S/cm; 0.01 mS/cm
TDS: 0.01 mg /L |
| ■ Temp.resolution | 0.1 °C |
| ■ Temp.Accuracy | 0.3 °C |
| ■ Temp. compensation error | \pm 0.3% fs |
| ■ Temp. compensation range | 0.... 150 °C |
| ■ Transfer function | Linear |
| ■ Response time | 0.1 second |
| ■ PH & Current output | Isolated 4 ... 20 mA output, max. load 750 Ω |
| ■ Temp. Current output | Isolated 4 ... 20 mA output, max. load 500 |
| ■ Electronic unit stability | \pm 0.1% F.S \pm 1 word/24h; |
| ■ Ambient temperature | 0 ... +70°C |
| ■ Storage temperature | -20 ... +70°C |
| ■ temperature coefficient | within range -20 to +90°C |
| ■ Repeatability error of electronic unit | \leq 0.1% F.S \pm 1 word |
| ■ Baud rate | 9600/19200/38400 |
| ■ Two sets of relay control contacts | 4A 250VAC, 4A 30VDC |





- One multi function relay
 - Electronic unit alarm error
 - Overall dimensions
 - Installation
 - Instrument
 - protection
- Clean/period alarm/error alarm
 ± 1% F.S
 96 × 96 × 130mm
 plate mounted (embedded); hole size: 91 × 91mm
 0.6kg;
 IP 65

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ORDERING CODE	Example: MDCN2014	2	4	4	4	A	A	2	P	Note
Conductivity measuring range										
1 - Conductivity: 0 ~ 20µS/cm (K = 0.01)										
2 - 20 ~ 200µS/cm (K = 0.1)		2								
3 - 200µS/cm ~ 4 mS/cm (K = 1.0)										
4 - 4 ~ 20.0 mS/cm (K = 10.0)										
5 - 20 ~ 200.0 mS/cm; (K = 30.0)										
6 - TDS: 0 ~ 100000mg/L										
C - Customer										
Process Connection										
4 - 3/4" NPT			4							
6 - 1" NPT										
8 - 1" BSP										
C - Customer										
Operating Pressure Range										
4 - 4 bar				4						
6 - 6 bar										
8 - 10 bar										
C - Customer										
Operating temperature										
4 - 60°C					4					
6 - 85°C										
8 - 95°C										
10 - 130°C										
C - Customer										
Output										
A - 2 NO 4 ... 20 mA output+1 NO multy function relay						A				
B - 2 NO 4 ... 20 mA output+2 NO relay										
C - Customer										
R - RS 485										
Power Supply										
A - 220VAC							A			
D - 24VDC										
C - Customer										
Conduit Entry Size										
2 - 1/2"NPT								2		
4 - M20*1.5										
C - Customer										
Installation										
P - Panel mounting									P	
W - Wall mounting										
P - Pipe mounting										
Other										





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