

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 0.00µS ... 20000µS
- 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 ~ 20µS/cm (K = 0.01) 20 ~ 200µS/cm (K = 0.1) 200µS/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:0.01µS/cm; 0.01mS/cm TDS: 0.01mg /L
■ Temp.resolution	0.1 °C
■ Temp.Accuracy	0.3 °C
■ Temp. compensation error	± 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 750Ω
■ Temp. Current output	Isolated 4 ... 20 mA output, max. load 500
■ Electronic unit stability	± 0.1%F.S± 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	≤ 0.1%F.S± 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); holesize: 91 × 91mm
- 0.6kg;
- IP 65

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ORDERING CODE	Example: MDCN2014	2	4	4	A	A	2	P	Note
<i>Conductivity measuring range</i>									
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									
<i>Process Connection</i>									
4 - 3/4" NPT		4							
6 - 1" NPT									
8 - 1" BSP									
C - Customer									
<i>Operating Pressure Range</i>									
4 - 4 bar		4							
6 - 6 bar									
8 - 10 bar									
C - Customer									
<i>Operating temperature</i>									
4 - 60°C			4						
6 - 85°C									
8 - 95°C									
10 - 130°C									
C - Customer									
<i>Output</i>									
A - 2 NO 4 ... 20 mA output+1 NO multi function relay					A				
B - 2 NO 4 ... 20 mA output+2 NO relay									
C - Customer									
R - RS 485									
<i>Power Supply</i>									
A - 220VAC					A				
D - 24VDC									
C - Customer									
<i>Conduit Entry Size</i>									
2 - 1/2" NPT				2					
4 - M20*1.5									
C - Customer									
<i>Installation</i>									
P - Panel mounting						P			
W - Wall mounting									
P - Pipe mounting									
Other									



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