

Industrial Conductivity Transmitter

Model: MDCN3014

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 | EC: 0.00 μ S ... 20000 μ S / Resistivity 0.00 ... 20.00 Ω M - CM
Salinity: 0.00 ... 78.00 g / Kg / TDS: 0 ... 133000 ppm |
| ■ Resolution | EC: 0.01 - 0.1 / Resistivity: 0.01 / Salinity:0.01 / TDS: 1 |
| ■ Temp.resolution | 0.1 °C |
| ■ Temp.Accuracy | 0.2 °C |
| ■ Temp. compensation | Pt 1000/NTC30K |
| ■ Temp. compensation range | -10 130 °C |
| ■ Cell constant | 0.001 ... 20.000 |
| ■ Transfer function | Linear |
| ■ Response time | 0.1 second |
| ■ ORP/pH & Current output | Isolated 4 ... 20 mA output, max. load 500 |
| ■ Temp. Current output | Isolated 4 ... 20 mA output, max. load 500 |
| ■ Current output Accuracy | 0.05 mA |
| ■ Ambient temperature | 0 ... +70°C |
| ■ Storage temperature | -20 ... +70°C |
| ■ temperature coefficient | within range -20 to +90°C |
| ■ Communication | RS 485, HART, PROFIBUS PA, FOUNDATION Fieldbus |
| ■ Baud rate | 9600/19200/38400 |
| ■ Maximum relay contacts | 5 A/ 250VAC, 5 A 24VDC |
| ■ One multi function relay | Clean/period alarm/error alarm |





- Cleaning setting ON: 1 to 1,000 seconds, off 0.1 to 1,000 hours
- Relay delay 0 to 120 second
- Data logging capacity 500,000
- Display Backlight
- protection IP 65

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ORDERING CODE	Example:	MDCN3014	2	4	4	4	A	N	A	2	P	Note
Conductivity measuring range												
1 - 0.01~20 μ S/cm - K = 0.01												
2 - 0.1~200 μ S/cm - K = 0.1			2									
3 - 1.0~2000 μ S/cm - K = 1												
4 - 10~20000 μ S/cm - K = 10												
5 - 30~600.0mS/cm - K = 30												
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												
Communication												
N - None								N				
H - HART												
P - PROFIBUS PA												
F - FOUNDATION Fieldbus												
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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