

# 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 $\mu$ S ... 20000 $\mu$ 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 $\mu$ S/cm (K = 0.01)<br>20 ~ 200 $\mu$ S/cm (K = 0.1)<br>200 $\mu$ S/cm ~ 4 mS/cm (K = 1.0)<br>4 ~ 20.0mS/cm(K = 10.0)<br>20 ~ 200.0mS/cm; (K = 30.0)<br>TDS: 0 ~ 100000mg/L |
| ■ Resolution                             | Conductivity:0.01 $\mu$ S/cm; 0.01 mS/cm<br>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 $\Omega$   |
| ■ 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  
 $\pm 1\%$  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
<b>Conductivity measuring range</b>										
1 - Conductivity: 0 ~ 20 $\mu$ S/cm (K = 0.01)										
2 - 20 ~ 200 $\mu$ S/cm (K = 0.1)		2								
3 - 200 $\mu$ S/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 ~ 100000 mg/L										
C - Customer										
<b>Process Connection</b>										
4 - 3/4" NPT			4							
6 - 1" NPT										
8 - 1" BSP										
C - Customer										
<b>Operating Pressure Range</b>										
4 - 4 bar				4						
6 - 6 bar										
8 - 10 bar										
C - Customer										
<b>Operating temperature</b>										
4 - 60°C					4					
6 - 85°C										
8 - 95°C										
10 - 130°C										
C - Customer										
<b>Output</b>										
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										
<b>Power Supply</b>										
A - 220VAC							A			
D - 24VDC										
C - Customer										
<b>Conduit Entry Size</b>										
2 - 1/2"NPT								2		
4 - M20*1.5										
C - Customer										
<b>Installation</b>										
P - Panel mounting									P	
W - Wall mounting										
P - Pipe mounting										
Other										



Address: 7191 Yonge street, Toronto, Canada

Tel: +16472221281(5 line)

Web: [www.madecotech.com](http://www.madecotech.com)

Email: [Info@madecotech.com](mailto:Info@madecotech.com)