

M300 Transmitter Wiring to 3-Lead Conductivity Sensors

Technical Note TN-0133

M300 conductivity transmitters can be used with direct connection to Thornton conductivity sensors with extended cable length and no connector, including:

US & Canada Part No.	International Part No.	Process Connection	Cable Length
240-217	58 031 217	3/4" NPT	20 ft (6 m)
240-218	58 031 218	1/2" NPT	10 ft (3 m)
240-220	58 031 220	3/4" NPT	30 ft (9 m)

Connections to M300 terminal board TB3 (and TB4 with 2-channel version)

Terminal No.	Sensor wire color	Function
1	Red	Cond inner 1
2	Jumper to 1	Cond outer 1
3	Shield	Cond inner 2
4	Jumper to 3	Cond outer 2/Shield
5		Not used
6		RTD ref/GND
7	Jumper to 4	RTD sense
8	White	RTD
9		+5V

If sensor leads are shortened, the exposed green conductor is not used.

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