**MCR-4V Specifications**

**Accuracy (1)**
- Type A, ±0.05 % of reading + ±0.05 % of full-scale reading
- Type B, ±0.1 % of reading + ±0.1 % of full-scale reading
- Individual sensor inaccuracies not included.
- All A and B types of ±1°C in the range from 20 to 25°C at the ambient.

**Input Impedance**
- Thermocouple: ±0.3 % of measured value + ±0.05 mV

**Input Frequency**
- DC-100 Hz

**Input Impedance**
- Approx. 1.1 MΩ

**Input Method**
- Scanning Method, Differential Input, Each Channel Isolated

**MCR-4TC Specifications**

**Accuracy (1)**
- Thermocouple Measurement: ±0.5°C [in operating environment of 10 to 40°C]

**Input Impedance**
- Approx. 1.1 MΩ

**Input Frequency**
- DC-100 Hz

**Input Impedance**
- Approx. 1.1 MΩ

**Input Method**
- Scanning Method, Differential Input, Each Channel Isolated

**Caution regarding safety**

For safe operation, carefully read the instructions before using the product.

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**T&D Corporation**

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2014.11. Production Division (Purchasing)
4-Channel Battery Operated Data Loggers
Up to 16 Channels of Simultaneous Recording

**Easy Connection of MCR-4V and MCR-4TC**
for Synchronous Measurement of Voltage and Temperature

**Trend Graph for Real-Time Data Check**

**Easy Touch Panel Operation**

**Large Capacity Internal Memory**
MCR-4V: Data logging up to 480,000 readings
MCR-4TC: Data logging up to 960,000 readings

**Electrical Isolation between Channels**
MCR-4V: Capable of measuring signals of different potentials
MCR-4TC: Possible to directly connect the exposed thermocouple junction to the measured object

**Runs on 2 AA Alkaline Batteries or USB Bus Power**

**SD Memory Cards**
for Long-Period Recording

- The latest information on memory cards whose operation has been confirmed is available on the product page of our T&D website.
- When coupling units, please prepare a memory card for each unit.

**Support for Variety of Thermocouple Types (K, J, T, S, R)**

Wide Measurement Range from -270 to 1760°C (varies with sensor type)

**View recorded data in colorful graph form as well as analyze data using generated cumulative values, highest, lowest, and average readings.**

**Add comments and memos directly to graphs.**

**Save data in CSV text format for use with spreadsheet software.**

**Application Examples**

**MCR-4V**
- Measure and record data for control devices and measurement instruments in factories
- Record signals from anemometers, anemoscopes and CO2 meters
- Record output signals from a variety of sensors and analyzers
- Measure voltage in electrical circuits

**MCR-4TC**
- Record temperatures in pipes and ducts
- Record boiler temperatures
- Record temperatures in cooking equipment such as pans, fryers, and ovens
- For temperature management of refrigerated and frozen goods

**MCR-4V and MCR-4TC**
- For temperature and pressure measurements inside slow cookers, pressure cookers, or other enclosed cooking containers.
- Measure air-conditioner gas pressure and outlet air temperature
- For measurement of engine combustion pressure and water cooling temperature.

**T&D Graph: High Performance Graph Tool**

- View recorded data in colorful graph form as well as analyze data using generated cumulative values, highest, lowest, and average readings.
- Add comments and memos directly to graphs.
- Save data in CSV text format for use with spreadsheet software.