

TELEPERM M/ME ANALOG INPUT EXTENSION

# Product Data Sheet

## 6DS1703-8RR

14-channel analog input extension module

| ANALOG INPUT CHANNELS | CHANNEL ADDRESS SELECTIONS | PERMISSIBLE COMMON-MODE VOLTAGE | SUPPORTED TEMPERATURE SENSORS             |
|-----------------------|----------------------------|---------------------------------|-------------------------------------------|
| 14                    | 5 to 18 or 19 to 32        | ≤60 V                           | Thermocouples and resistance thermometers |

Siemens 6DS1703-8RR is an analog input extension module for compatible TELEPERM M/ME measuring configurations. It adds fourteen measurement channels to the documented 6DS1731 arrangement for thermocouples and resistance thermometers.

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## VERIFIED TECHNICAL DATA

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| Analog input channels             | 14                                             |
| Channel address selections        | 5 to 18 or 19 to 32                            |
| Permissible common-mode voltage   | ≤60 V                                          |
| Supported temperature sensors     | Thermocouples and resistance thermometers      |
| Measuring-point switch technology | Opto relays                                    |
| Additional current at L+ = 26 V   | 25 mA                                          |
| Typical power loss at L+ = 26 V   | 0.7 W                                          |
| Electrical protection class       | Class III to DIN EN 60950                      |
| Fire-resistance class             | V-1 to UL 94 or IEC 707                        |
| MTBF to SN 29500                  | 27.2 years at 40 deg C; 13.0 years at 55 deg C |

## ADDITIONAL PRODUCT DATA

|                                   |                                                               |
|-----------------------------------|---------------------------------------------------------------|
| Dynamic surge immunity            | ±1 kV to earth; ±0.5 kV between process-interface connections |
| Operating vibration, 10 to 58 Hz  | 0.15 mm amplitude                                             |
| Operating vibration, 58 to 500 Hz | 2 g acceleration                                              |
| Operating shock pulse             | 10 g half-sine, 16 ms                                         |
| Shock test endurance              | 1000 shocks per direction, 6000 total                         |

## DOCUMENTED USE SETTINGS

Chemical Manufacturing and Petrochemical Process Production: Industrial Chemical Production.

Electricity Generation and Industrial Heat Production: Thermal Electric Power Generation.

Oil Refining and Natural Gas Processing: Crude Oil Refining.

## SYSTEM COMPATIBILITY

6DS1703-8RR belongs to the TELEPERM M/ME analog input extension family and provides the documented 14-channel analog input extension module function. Its analog input channels is 14; match this characteristic to the connected equipment and the project configuration.

## PRODUCT EVIDENCE

Siemens TELEPERM M/ME C79000-B8076-C427, exact extension-module technical data section 5.2, source pages 158 to 159

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM