

MTL8000 DISTRIBUTED I/O

Product Data Sheet

8502-BI-DP

PROFIBUS-DP bus interface module

I/O MODULE CAPACITY	NETWORK PROTOCOL	TRANSMISSION RATES	TRANSMISSION INTERFACE
24 modules maximum	PROFIBUS-DP to EN 50170	9.6 / 19.2 / 93.75 / 187.5 / 500 kbaud; 1.5 / 6 Mbaud	RS-485

MTL 8502-BI-DP is a bus interface module in the MTL8000 distributed I/O family for connecting compatible I/O modules to a PROFIBUS-DP host. The documented 8502-BI-DP family supports up to twenty-four I/O modules and exchanges process and diagnostic data with the host controller.

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VERIFIED TECHNICAL DATA

I/O module capacity	24 modules maximum
Network protocol	PROFIBUS-DP to EN 50170
Transmission rates	9.6 / 19.2 / 93.75 / 187.5 / 500 kbaud; 1.5 / 6 Mbaud
Transmission interface	RS-485
LAN/Railbus/power isolation	500 V
Input data capacity	244 bytes including 2-byte status word
Output data capacity	244 bytes including 2-byte control word
Combined cyclic data capacity	296 bytes maximum
Diagnostic telegram	78 bytes
Railbus supply	12 V DC

ADDITIONAL PRODUCT DATA

Railbus current	420 mA typical; 520 mA maximum at -40 deg C
Cable impedance	135 to 165 ohm
Cable capacitance	30 pF/m maximum
Bus length at 9.6 to 93.75 kbaud	1200 m maximum
Bus length at 6 Mbaud	100 m maximum

DOCUMENTED USE SETTINGS

Chemical Manufacturing and Industrial Process Production: Chemical Production and Processing.

Oil and Natural Gas Production Processing: Oil Production and Treatment.

Water Treatment and Municipal Water Distribution: Water Treatment and Distribution.

SYSTEM COMPATIBILITY

MTL 8502-BI-DP is a bus interface module in the MTL8000 distributed I/O family for connecting compatible I/O modules to a PROFIBUS-DP host. The documented 8502-BI-DP family supports up to twenty-four I/O modules and exchanges process and diagnostic data with the host controller.

OFFICIAL SOURCE

MTL Instruments MTL8000 distributed I/O official technical documentation

AMIKON PRODUCT SUPPORT

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