

M-RESTER Surge Protectors absorb only the lightning surges with no interruption of the instrumentation signal

TRANSMISSION LINE USE

RS-485 / RS-422, Ultra-slim Type



MD74R

Model No.	MD74R
Max. Cont. Operat. Volt. (Uc)	±5V
Voltage Protection Level (Up)	±25V max.
Response Time	4 nanosec. max.
Max. Discharge Curr. (Imax)	20kA (8/20 µsec.), 1.0kA (10/350 µsec.)
Nominal Current (IN)	100 mA
Internal Resistance	2Ω ±10% per line
Test Standard	IEC 61643-21 (Categories C1, C2, D1)

RS-485 / RS-422, Full-duplex



MDW5-4R

Model No.	MDW5-4R
Discharge Voltage	±5V min.
Max. Surge Voltage	±25V max.
Response Time	4 nanosec. max.
Discharge Current	10kA (8/20 µsec.)
Max. Load Current	100 mA
Internal Resistance	approx. 4 Ω (incl. return)

Ethernet, 100 BASE-TX / 10 BASE-T



MDM5E-A

Model No.	MDM5E-A
Discharge Voltage	±6V min.
Max. Surge Voltage	38V max.
Response Time	4 nanosec. max.
Discharge Current	500A (8/20 µsec.)
Series Resistance	approx. 0 Ω
Impulse durability	Category c1

PROFIBUS-PA, Ultra-slim Type



MD7PA

Model No.	MD7PA
Max. Cont. Operat. Volt. (Uc)	±32V
Voltage Protection Level (Up)	±60V max.
Response Time	4 nanosec. max.
Max. Discharge Curr. (Imax)	20kA (8/20 µsec.), 1.0kA (10/350 µsec.)
Nominal Current (IN)	400 mA
Internal Resistance	1.5Ω ±10% per line
Test Standard	IEC 61643-21 (Categories C1, C2, D1)

LONWORKS (FTT-10A), Ultra-slim Type



MD7LWA

Model No.	MD7LWA
Max. Cont. Operat. Volt. (Uc)	±1.5V min.
Voltage Protection Level (Up)	±30V max.
Response Time	4 nanosec. max.
Max. Discharge Curr. (Imax)	20kA (8/20 µsec.), 1.0kA (10/350 µsec.)
Nominal Current (IN)	100 mA
Internal Resistance	3.3Ω (incl. return)
Test Standard	IEC 61643-21 (Categories C1, C2, D1)

FOUNDATION Fieldbus, Ultra-slim Type



MD7FB

Model No.	MD7PM
Max. Cont. Operat. Volt. (Uc)	±32V
Voltage Protection Level (Up)	±60V max.
Response Time	4 nanosec. max.
Max. Discharge Curr. (Imax)	20kA (8/20 µsec.), 1.0kA (10/350 µsec.)
Nominal Current (IN)	400 mA
Internal Resistance	1.5Ω ±10% per line
Test Standard	IEC 61643-21 (Categories C1, C2, D1)

RS-485 / RS-422, Plug-in Type



MDP-4R

Model No.	MDP-4R
Discharge Voltage	±5V min.
Max. Surge Voltage	±20V max.
Response Time	4 nanosec. max.
Discharge Current	5000A (8/20 µsec.)
Max. Load Current	100 mA
Internal Resistance	approx. 4.5 Ω (incl. return)

RS-485 / RS-422, Plug-in Type with Life Monitor



MDW2A-4R

Model No.	MDW2A-4R
Discharge Voltage	±5V min.
Max. Surge Voltage	±25V max.
Response Time	4 nanosec. max.
Discharge Current	5000A (8/20 µsec.)
Max. Load Current	100 mA
Internal Resistance	approx. 5 Ω (incl. return)

DeviceNet



MD-DNM / MD-DNS

Model No.	MD-DNM	MD-DNS
Discharge Voltage	Line Side	±5V min.
	Exc. Side	26V min.
Max. Surge Voltage	Line Side	±15V max.
	Exc. Side	120V max.
Response Time	0.1 µsec. max.	
Discharge Current	Line Side	1500A (8/20 µsec.)
	Exc. Side	
Load Capacity	Line Side	8A
	Exc. Side	2A

PROFIBUS-PA, Plug-in Type



MDP-PA

Model No.	MDP-PA
Discharge Voltage	±30V min.
Max. Surge Voltage	±60V max.
Response Time	4 nanosec. max.
Discharge Current	5000A (8/20 µsec.)
Max. Load Current	500 mA
Internal Resistance	approx. 3.3 Ω (incl. return)

LONWORKS (FTT-10A), Plug-in Type



MDP-LWA

Model No.	MDP-LWA
Discharge Voltage	±1.5V min.
Max. Surge Voltage	±40V max.
Response Time	4 nanosec. max.
Discharge Current	5000A (8/20 µsec.)
Max. Load Current	100 mA
Internal Resistance	3.3 Ω (incl. return)