



**LightningMaster**  
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## **PIPE CLEANER LM-PC-4 - 24V**



Lightning Master Pipe Cleaners are dual-circuit in-line, multi stage, parallel devices designed to protect 4-20mA data and 5V, 24V, 110V/120V. This device is designed to mount in the conduit at the transmitter.

This product compliments the TS-12

Surge Rating	10 kA (8x20 waveform)
Type Designation	Automatic Recovery
Fast Response Time	<5nS
Series Impedance	1 Ohm
Standard Voltages	6, 24, 110/120 VDC
Operating Temperature	-20C to +85C
Design Features	Ground to Ground Shield Wire Protection

SRAT TYP STAG PATTERN  
AROUND CATWALK ON  
TANK SHELL AND HANDRAIL

FULLY LANDED

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2100-A Palmetto St., Clearwater, FL 33765  
800-749-6800

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## TS-12/24 Data Protector



The LM-TS12/24V-4/20 is a 12-line surge suppressor designed for a wide variety of current loop applications for commercial and industrial process control protection. This product protects the connected devices from damaging over-voltage transients while providing signal noise reduction. The sealed enclosure ensures against water, dust and oil intrusion. This product compliments the LM-PC-4 Pipe Cleaner™.

### Features and Benefits:

- 12 wire circuit protection
- Fast response time
- Automatic recovery

*Note: Also Available With Low Capacitance Diodes or multiple modes of protection. Other Voltages Available Upon Request.*

### Electrical Specifications:

- 30V Minimum Clamping Voltage
- 24V Maximum Line Voltage
- 35V Residual Voltage, 8/20. Impulse, 5kA
- Nominal Discharge Current 10 x 8/20 Impulse.
- Short Circuit – End of Life

### Dimensions:

Length – 6 7/8" Width – 3 1/8" Height – 2 5/8"

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