SURGITRON® PM

Model 1261-85-PM ⓊⓁ·ⓊⓁ
Single Phase, 230 Vac, 2 Wire
Surge Protector and Power Monitor

- **Unique Features:**
- Plug-in MOV modules with Patented individual thermal disconnects.
- First of its kind digital "Percent Protection Remaining" monitoring.
- Internal dial-up modem communicates with any Windows based PC and **SURGITRON PM/PMT** software
- Internal monitor reports true RMS voltage, sags, swells, surges, sub-cycle dropouts, and multi-cycle outages.

General Specifications:

SPD Category and Type	Main Panel or Sub-panel Application
Nominal Line Voltage (L-N)	230 Vac
Protection Modes	L-N, L-G, N-G
Maximum **C**ontinuous **O**perating **V**oltage of (L-N)	255 Vac
Maximum Surge Current, 8/20 µs (per phase)	160 kA
(L-N, L-G)	80 kA
(N-G)	40 kA
Varistor voltage, 1mA (L-N)	430 Vdc
(L-G, N-G)	680 Vdc

Suppression Voltage, ANSI/IEEE C62.41 & C62.11 Wave Shapes, tested per C62.45

		L-N	**L-G**	**N-G**
Location Category A	200 A, 100 kHz Ring Wave	680 V	1,040 V	960 V
Location Category B	500 A, 100 kHz Ring Wave	720 V	1,060 V	980 V
	3 kA, 8/20 µs Combination Wave	760 V	1,100 V	1,020 V
Location Category C	10 kA, 8/20 µs Combination Wave	920 V	1,240 V	1,160 V
	20 kA, 8/20 µs Combination Wave	1,240 V	1,560 V	1,320 V

UL Suppression Voltage (L-N)	600 V
(L-G, N-G)	900 V
Surge Energy Capability of all MOVs	11,390 Joules
Surge Life, 230 Vac applied, 3 kA, 8/20 µs	> 50,000 operations
10 kA, 8/20 µs	> 5,000 operations
Component Response Time	< 1 nanosecond
Relay Contact Rating, N.O. and N.C.	5 A, 24 Vdc/240 Vac
Load Current Rating, Protector Series Connected (Kelvin)	150 A Maximum
Protector Parallel Connected (Shunt)	Unlimited
Operating Temperature	-40 C to +65 C
UL Listed per UL 1449 and Canadian standards	File No. E74944
Warranty:	5 years

Communications:
One Form C relay for remote alarm connections.
A nine pin (DB-9) connector for RS-232 connection to your Personal Computer serial port
Integral modular telephone jack RJ-11 to connect the dial up V.22 modem to the telephone system.
Communicates with modem equipped Windows95® based PC via supplied **SURGITRON PM/PMT** software.

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Power up Diagnostics:

Sounds the audible alarm, lights the visual (LED) displays, checks for the presence of protector modules, verifies and displays electrical system frequency, and verifies sub-systems operation.

Monitoring:

Provides true rms voltage readings for each line, accuracy of ±2% at nominal line voltage

Detects and counts sags > 5 cycles, 10% to 90% nominal voltage

Detects and counts voltage swells > 5 cycles, >110% nominal voltage

Detects and counts surges ≥ 20 µs, >130% nominal peak voltage

Detects and counts fractional cycle dropouts ≥ ¼ cycle

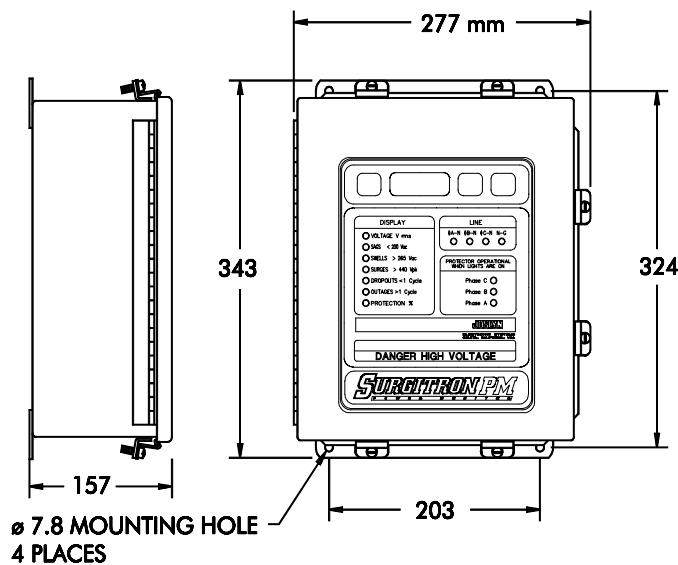Detects and counts outages > 1 cycle

Saves counts to nonvolatile memory, maximum 999 counts per type

Detects percent protection available each protection module (MOV or SAD)
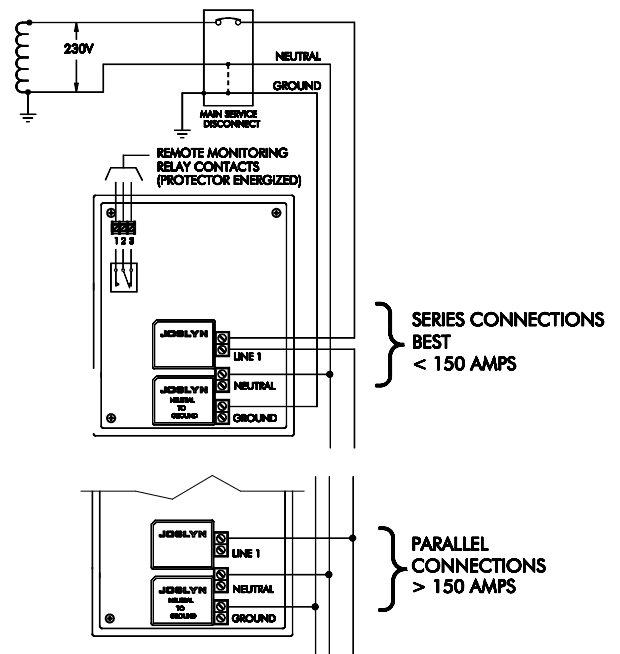
     A 25% reduction of protection triggers an audible alarm that can be reset

     A 50% reduction of protection triggers audible alarm, extinguish of LED associated with affected phase, and a change of state in a dual dry contact NO/NC relay output for other local alarming.

Dimensions

Installation

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Windows95® is a trademark of Microsoft Corporation.