

**Sentinel™ 10-Series Communication Line Protectors:** Some face persistent system problems, despite their use of conventional communication line protectors. Others face performance expectations that allow zero tolerance for downtime. 10-Series communication line protectors are specifically engineered to satisfy these demanding applications, whether analog or digital.

#### **Ultimate Assurance of system reliability**

Leading telecommunications companies employ ONEAC Sentinel communication line protectors in their installations for good reason: because Sentinel protectors provide greater assurance of PBX and Key system uptime and lower service costs than conventional protectors.

#### **Eliminates harmful transients**

System lockups, dropped calls, mis-dials, system memory loss, "no trouble found" service calls, service outages, shortened component life — these problems all result from high frequency interference. Sentinel Series protectors with ONEAC's patented Frequency Selective Transient Voltage™ (FSTV) technology prevent these fast-edged transients from entering your system, yet allow lower frequency ring voltages and signals to pass through unobstructed.

#### **Last longer on the job**

ONEAC communication line protectors feature more robust design than others so they're better able to withstand current and voltage surges. Which eliminates the cost and downtime of replacement due to failures.

#### **Proven to reduce service costs**

By removing electrical transients, ONEAC improves system reliability. Look at actual evidence — installers switching over to a protection scheme using Sentinel protectors with ONEAC power conditioners report an over 50% reduction in total service calls; 83% fewer service calls due to hardware problems; 70% fewer system resets; and 43% fewer calls in which no trouble was found.



- **Robust/solid state overvoltage protection:** last longer in the field
- **Patented Frequency Selective Transient Voltage™ protection:** allows exceptionally low let-through performance for optimum protection of electronic systems
- **100 A surge impulse design:** provides longer lasting protection
- **Convenient test points:** for faster, easier line testing
- **Models available for analog and digital telecom lines**
- **5-year warranty:** your best assurance of product performance and reliability in the industry.
- **Manufactured under ISO 9001:** assures consistent quality and performance.
- **Free 24-hour technical support**

## Sentinel 10-Series Communication Line Protector: Specifications

### Single line models

The Sentinel 10-Series single line protectors allow you to protect analog and digital lines mixed on a single mounting bracket.

Installed between the demarcation point and point of use, 10-Series communication line protectors eliminate the possibility for noise generated on outside telephone lines to enter internal communications circuits.

### Application

E1: Service

# Lines

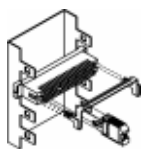
1 \*

Model No.

10NP-1

\* Single line protectors require Ground Bar (10 position) part number - 350-139 or Ground Bar (8 position) part number - 350-140.

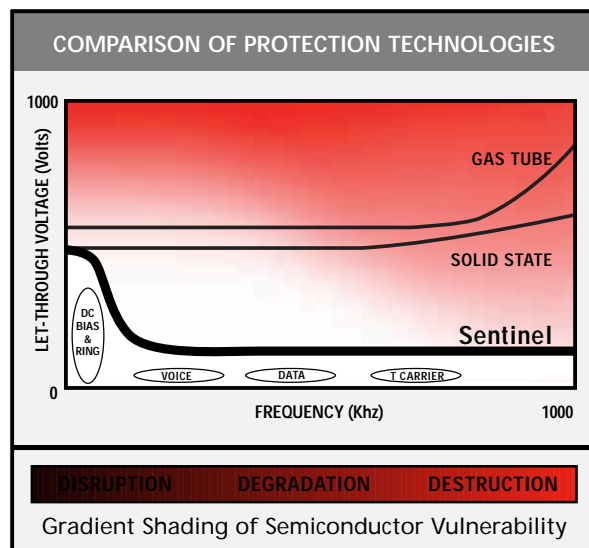
### Sentinel 10-Series Protector



ONEAC Sentinel 10-Series (1 line) protectors are designed to fit easily into Krone LSA-PLUS™ connection strips on the frame.

### ONEAC breaks the "Ring Voltage Barrier"

Conventional protectors (gas tube or solid state) are designed to clamp above the operating DC bias and the ring voltage level. The Sentinel's ability to differentiate signals based on frequency permits the desired signals to pass while preventing transients from damaging semiconductor-based electronics.



### Part Number

10NP-1

#### Impulse (limiting voltage) Performance 10/1000µS, 1500V, 100A Impulses:

Let-through voltage - line to earth (typical/max.)

60 V/100 V

Let-through voltage - line to line (typical/max.)

60 V/100 V

#### DC Breakdown Voltage (0-1 kV @ 100 V/s):

Line to earth (typical/range)

310 V/270-350 V

Line to line (typical/range)

310 V/270-350 V

Module Loop Resistance @ 25°C (each leg)

0.1 Ω min, 0.3 Ω max

Holding Current

≥260 mA

Response Time

<1 ns

Insulation Resistance

>100 MΩ

Capacitance @ 50VDC, 1 VAC, 10 kHz - 10 MHz

line to earth

<40 pf

line to line

<40 pf

On State Voltage with 1 Amp RMS

<5 V

Overcurrent Protection (Sneak Current) @ 25° C

Non-resetting (time delay fuse)

2 A

Color Code

Black

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