

## PRODUCT OVERVIEW



### General:

The KLIO AC Power Monitor is a stand-alone alarms front-end interface intended for installation into station AC power distribution boards where it also serves as a concentrator to all the AC power related alarm functions. The alarm outputs from the KLIO Power Monitor can be used independently to user equipment or interconnects directly to the related VEGA Station Alarm Panel making the KLIO an optional front-end device for the VEGA SAP application.

Integral sensing functionality on the KLIO includes total mains power fail sensing on a three-phase power system, single phase failure sensing and navigation warning light lamp failure sensing. Together with these functions the unit will accept an optional input from a mains power condition monitoring device (separately supplied dedicated device) plus two more user defined alarm inputs to service up to a total of five alarm channels. Typical user defined alarm inputs originating at the AC power distribution board may be indication of surge protection device operation or failure, external mains power sensing or similar. For basic operation the KLIO is powered off line and therefore does not require an auxiliary power supply.

## AC Power Monitor - KLIO

### Application:

Mains power monitor system for small telecommunications or control room environments including:

- ↑ Radio Base Stations
- ↑ Industrial Applications
- ↑ Remote Subscriber Switches
- ↑ Server Rooms
- ↑ Transmission Systems

### Features:

- ↳ Available in standard 3, 4 or 5 channel version or with mains condition input/repeat output;
- ↳ Local annunciation of integral mains power sensing functions;
- ↳ Pre-calibrated and tested to customer specified navigation warning light requirements or user configurable as required to meet alternative network requirements;
- ↳ Optional external mains condition sensing input;
- ↳ 35mm DIN rail mount housing allows for ease of installation in distribution boards;
- ↳ Box type screw terminal inputs;
- ↳ Auxiliary power supply only required when mains condition sensing functionality is used.

### Advantages:

Direct plug-in compatibility with VEGA Station Alarms Panel

Designed for lamp failure class discrimination sensitivity on dedicated navigation warning light circuit sensing.

#### Note:

Navigation warning light fault sensing is based upon current sensing principle and full performance is not achievable in cases where interior pole lights are operated off the navigation warning light circuit.

### Nomenclature:

#### KLIO 3..5/aA/bb/cc

#### Key:

3..5	denotes 3, 4 or 5 channel version;
a = 1	Fused 1 Amp, navigation warning light application for total fluorescent lamp wattage from 22 to 100 and incandescent lamp wattage from 120 to 180;
a = 2	Fused 2 Amp, navigation warning light application for total fluorescent lamp wattage from 60 to 200 and incandescent lamp wattage from 180 to 360;
bb = RO	denotes mains condition repeat output is provided ready to interface to ACCU. (Only applicable when used with external dedicated mains condition sensing device.);
bb = RL	denotes mains condition repeat output is provided but on-board link L1 is delivered closed for future implementation;
bb = --	denotes no mains condition input functionality;
cc = 12,24 or 48	denotes 12, 24 or 48V DC rating of auxiliary supply voltage to drive repeat output current.

For applications outside of the above specifications, please contact manufacturer.

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### Specifications:

Integral AC Power System Alarms:      Mains Fail  
(No phases present)

Phase Fail  
(Any one phase not present)

Navigation Warning Light Lamp Fail

Optional (User Defined) alarm inputs:      1 or 2

Alarms output logic:      Integral functions all n/c  
User functions n/c or n/o

External mains condition      n/c  
input type

Mains condition repeat      4mA Source  
output type      (Interface to ACCU)

Field input terminations:      Screw type

Alarm output terminations:      Plug connection

### Ratings:

Rated Voltage:      400V Ph to Ph;  
230V Ph to N

Phase Fail Discrimination      70V approx  
Level

Navigation Warning Light (Lamp current sensing  
sensitivity)      22 to 100 Watt Fluorescent or  
100 to 360 Watt Incandescent Type Lamps

Auxiliary supply voltage:      12/24/48VDC  
(Required for repeat output operation only)

Aux supply current consumption: <7mA @ 24V DC

Alarms output switching:      Electronic type: 50mA

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