VIGILANTE® II ALARM ANNUNCIATORS

Vigilante





Model PD154 / 4-Point

Model PD158 / 8-Point

- 8 Field Selectable Sequences
- All Common ISA Sequences Including First-Out
- Switch, Transistor, and Logic Level Inputs
- 4 or 8-Point Monitoring
- Free Custom Message Labels
- Type 4X, NEMA 4X, IP65 Front
- Universal Power Supply 85-265 VAC
- 12-36 VDC/12-24 VAC Power Option
- Built-In 85 dB Horn
- 2 SPDT Relays for Alarm Activated Devices
- 24 VDC Isolated Power Supply (AC Models)
- Multiple-Unit First-Out Indication
- Silence, Acknowledge, and Reset Functions
- Sunlight Readable Indication
- Shallow Depth 1/8 DIN Case



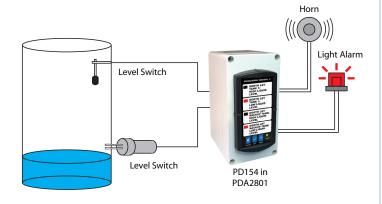




MODEL PD154 & PD158 VIGILANTE® II ANNUNCIATORS

APPLICATIONS

Level Monitoring with Level Switches



The Vigilante® II is ideal for tank level switch monitoring.

- Up to 8 Individually Labeled Level Switch Inputs
- 24 VDC Level Switch Power Supply
- Relays for External Horns and Light Alarms
- Easy NEMA 4X Mounting Enclosures
- Sunlight Readable Indication

Temp Monitoring with Trident Meters



Connect PD765 Trident alarm relays to the Vigilante II for temperature alarm monitoring.

- First-Out Indication for Heating/Cooling Systems
- Multiple Unit First-Out Indication
- Remote Silence, Acknowledge, and Reset
- Internal 85 dB Horn
- Fail-Safe Relays for Critical Applications

First-Out Alarm Indication

The Vigilante II can be programmed for multiple sequences with first-out alarm indication. This feature indicates the first point of failure of a system when multiple alarms occur.

Multiple Unit First-Out Alarm Indication



Multiple Unit First-Out Indication

If multiple Vigilante II annunciators are connected for multiple unit first-out indication, only one input from all connected devices will display as a first-out alarm.

ALARM SEQUENCES

The Vigilante II Alarm Annunciator can be programmed for all common ISA sequences including A, F1A, F2A, F3A, M, F1M. Selectable ISA-1 (Silence Button), -4 (No Lock-In), and horn disable options. Two popular sequences are detailed below.

ISA Alarm Sequence A

Acknowledgement and Automatic Reset

Momentary Alarm

| Condition | LED | Horn | | | |
|-------------------|----------|------|--|--|--|
| Normal | Off | Off | | | |
| Alert | Flash | On | | | |
| Normal | Flash On | | | | |
| User Acknowledged | | | | | |
| Acknowledge | Off | Off | | | |

Maintained Alarm

| Condition | LED | Horn | | | | |
|-------------------|----------|------|--|--|--|--|
| Normal | Off | Off | | | | |
| Alert | Flash On | | | | | |
| User Acknowledged | | | | | | |
| Acknowledge | Steady | Off | | | | |
| Normal | Off | Off | | | | |

ISA Alarm Sequence F2A

First-Out Alarm Indication with Acknowledgement and Automatic Reset

Momentary Alarm

| Condition | LE | Horn | | | |
|-------------------|----------------|--------|-----|--|--|
| | 1st Pt Next Pt | | | | |
| Normal | Off | Off | Off | | |
| Alert | Flash | Steady | On | | |
| Normal | Flash | Steady | On | | |
| User Acknowledged | | | | | |
| Ack | Off | Off | | | |

Maintained Alarm

| Condition | LE | Horn | | | |
|-------------------|--------------------|---------|-----|--|--|
| | 1 st Pt | Next Pt | | | |
| Normal | Off | Off | Off | | |
| Alert | Flash | Steady | On | | |
| User Acknowledged | | | | | |
| Ack | Steady | Steady | Off | | |
| Normal | Off | Off | Off | | |

MODEL PD154 & PD158 VIGILANTE® II ANNUNCIATORS

FRONT PANEL

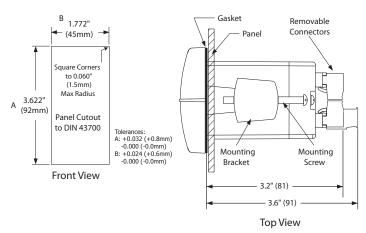
| Button | ¥ | t | C | | |
|-------------|-------------------------|---------------------|-----------------|--|--|
| Description | Silence Horn | Acknowlege Alarm | Reset Inputs | | |
| LED | Description | | | | |
| | Point status indicators | | | | |
| | Indicates power is on | | | | |

LED Test: Press and release the SILENCE and ACK pushbuttons to flash the channel indicator LEDs for an LED function test.

Full Function Test: Press and hold the SILENCE and ACK pushbuttons for 3 seconds to initiate a full function test.

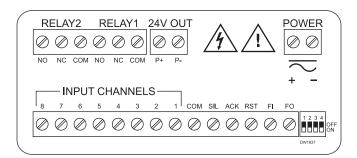
External Connections: All three pushbuttons may be activated remotely via rear terminal connections.

MOUNTING DIMENSIONS



CONNECTIONS

PD158 connections for 85-265 VAC powered model.



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MESSAGE LABELS

Alarm message labels for the alarm annunciator may be factory printed at no charge, or field printed using a laser printer with clear self-adhesive labels.

Factory printed message labels may be ordered at any time by completing the following form.

| Please include label with my order |
|---|
| I have the Annunciator, please send label |
| Quantity |
| Name |
| Title |
| Company |
| Mailing Address |
| City, St., Zip |
| Phone |
| Fax |
| E-Mail |
| PO# |

Area available per message: PD154, 1.25" x 0.60" (32 mm x 15 mm); PD158, 1.25" x 0.25" (32 mm x 6 mm); user may specify any size and length that will fit in this area. Lines of 14 characters max at 9 point type will fit.

| PD1 | 54 | | | | | | | | PD′ | 158 |
|-----------------|-------------------------|----------|--|--|--|--|--|------|-----------|-----------------|
| Mess | Message 1 Message 1 & 2 | | | | | & 2 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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MODEL PD154 & PD158 VIGILANTE® II ANNUNCIATORS

SPECIFICATIONS

Except where noted all specifications apply to operation at +25°C.

General

Display: PD154; Four red LED channel indicators. PD158; Eight red LED channel indicators. One green LED power indicator.

Alarm Messages: Custom printed adhesive clear labels. Area: PD154, 1.25" x .60" (32 mm x 15 mm), 4 messages

PD158, 1.25" x .25" (32 mm x 6 mm), 8 messages

User specified size and length, up to 4 lines (PD154) or 2 lines (PD158) of 14 characters of size 9 pt fonts.

Programming Methods: Rear 4-position switch for sequence selection and horn operation. Three front panel pushbuttons for NO/NC input selection, sequence option, and operation.

Audible Alarm: 85 dB internal horn.

Noise Filter: 40 ms debounce on inputs, including external silence. acknowledge and reset.

Shared First-Out Systems: 1 ms unit-to-unit delay. Maximum of 200 units in the shared first-out system.

Non-Volatile Memory: All programmed settings are stored in non-volatile memory for a minimum of ten years if power is lost.

Power Options: 85-265 VAC, 50/60 Hz; 90-265 VDC, 20 W

max; or 12-36 VDC, 12-24 VAC, 6 W max.

Fuse: Required external fuse: UL Recognized, 5 A max, slow

blow. Up to 6 annunciators may share one 5 A fuse Isolated Power Supply: 24 VDC ± 10% @ 200 mA max

Standard on 85-265 VAC powered units only. **Isolation:** 4 kV input/output-to-power line.

Overvoltage Category: Installation Overvoltage Category II: Local level with smaller transient overvoltages than Installation Overvoltage Category III.

Environmental: Operating temperature range: -40 to 65°C. Storage temperature range: -40 to 85°C. Relative humidity: 0 to 90% non-condensing.

Connections: Removable screw terminal blocks accept 12 to 22 AWG wire.

Enclosure: 1/8 DIN, high impact plastic, UL 94V-0, front color: black Mounting: 1/8 DIN panel cutout required. Two panel mounting

Tightening Torque: 5 lb-in (0.5 Nm)

Overall Dimensions: 4.68" x 2.45" x 4.19" (62 mm x 119 mm x

106 mm) (H x W x D) Weight: 9.6 oz (272 g)

brackets included.

UL File Number: E160849; 508 Industrial Control Equipment

Warranty: 3 years parts & labor

Your Local Distributor is:

Order from:

C A Briggs Company

622 Mary Street; Suite 101 Warminster, PA 18974

Phone: 267-673-8117 - Fax: 267-673-8118 Sales@cabriggs.com - www.cabriggs.com

Inputs

Input Types: NO or NC switches: No external excitation required. Open collector transistor (NPN): Open circuit voltage approx. 3.3 VDC. Logic Levels: LOW = 0 to 0.9 VDC, HIGH = 2.4 to 28 VDC **Update Rate:** 41 ms following alarm state; 1 ms for alarm state clear.

Sequences: Input follower, ISA Sequences A, F1A, F2A, F3A, M, F1M, and F3M per ISA Standard ISA-18.1-1979 R2004.

Sequence Options: A, F1A, F2A, F3A, M, F1M, F2M, and input follower with selectable options -1 (silence pushbutton), -4 (no lock-in), and -6 (no horn) per ISA Standard ISA-18.1-1979 R2004.

Relays

Rating: 2 SPDT (Form C); rated 3 A @ 30 VDC or 3 A @ 250 VAC resistive load; 1/14 HP @ 125/250 VAC for inductive loads.

Electrical Noise Suppression: A suppressor (snubber) should be connected to each relay contact switching inductive loads to prevent disruption to the microprocessor's operation. Recommended suppressor value: 0.01 μF/470 Ω, 250 VAC (PDX6901).

Relay Operation: Relay 1: Alarm state until alarm is acknowledged. Relay 2: Alarm state if any channel indicating alarm condition.

Fail-Safe Operation: Programmable independent for each relay. Note: In fail-safe mode, relay coil is energized in non-alarm condition. In case of power failure, relay will go to alarm state.

ORDERING INFORMATION

| Vigilante II • Alarm Annunciator | | | | | |
|----------------------------------|-------------|----------------------------------|--|--|--|
| 85-265 VAC** Model | Description | | | | |
| PD154-6R2-1* | PD154-7R2-0 | Vigilante II 4-Point Annunciator | | | |
| PD158-6R2-1* | PD158-7R2-0 | Vigilante II 8-Point Annunciator | | | |

^{**} All models may be powered from AC or DC, see Specifications for details.

^{*} Quick Shipment Program product, typically shipped within 2 working days

| Enclosures and Accessories | | | | | |
|----------------------------|-------------------|--|---------------|--|--|
| Model | # of Units | Description | Mounting | | |
| PDA25XX-V | 1-10 [†] | Plastic NEMA 4X Enclosure | Through Door | | |
| PDA26XX-V | 1-6 [†] | Stainless Steel NEMA 4X | Through Door | | |
| PDA27XX-V | 1-6 [†] | Steel NEMA 4 Enclosure | Through Door | | |
| PDA2801* | 1 | Low-Cost Plastic NEMA 4X | Through Cover | | |
| PDX6901 | | Snubber $0.01\mu\text{F}$, 470Ω , Flexible Leads | | | |

Note: XX = the last two digits of the model number

www.CABriggs.com

[†] Go to www.predig.com to find individual model numbers.

^{*} Quick Shipment Program product, typically shipped within 2 working days