

Doric 1000 Pro Specifications

General Specifications

Accuracy

0.5% full scale

Temperature Stability

±100 ppm / °C

Noise Rejection

CMRR: <130 dB with 250 ohms unbalance typical

NMRR: <40 dB @ 50/60 Hz

Input Power Protection

Fuseable resistor

Measuring Mode

Dual slope

Input Mode

Single-ended with auto zero

Display

3-1/2 digit, 7-segment red LED, 0.56" (14.2mm) H

Environmental

0-50 °C (32 to 122 °F), <85% RH

Weight

1 lb. (454g)

Size (H x W x L)

Case (1/8 DIN): 1.57" x 3.54" x 4.56" (4.0 cm x 9.0 cm x 10.9 cm)

Bezel: 1.89" x 3.78" (4.8 cm x 9.6 cm)

Panel cutout: 1.77" x 3.62" (4.5 cm x 9.2 cm)

Power

115 Vac ±10%, 50/60 Hz

220 Vac or 24 Vac ±10% (optional)

Options/Accessories

Dual Alarm with Excitation Power Supply

Two 5A @ 120 Vac (non-inductive)

Form C relays (SPDT)

Excitation Power Supply

10 Vdc (±5%), 30 mA

Custom Configurations

With your help, our engineers can build a digital panel indicator that meets your specification requirements. Please consult VAS Engineering for more information.

Input Ranges and Accuracy

Input	Accuracy(±)*	Range	Resolution
DC Volts	0.5%	0 to ±199.9 mV	0.1 mV dc
	0.5%	0 to ±1.999 V	1 mV dc
	0.5%	0 to ±19.99 V	10 mV dc
	0.5%	0 to ±199.9 V	0.1 Vdc
	0.5%	0 to ±600 V	1 Vdc
AC Volts	0.5%	0 to 199.9 mV	0.1 mV ac
	0.5%	0 to 1.999 V	1 mV ac
	0.5%	0 to 19.99 V	10 mV ac
	0.5%	0 to 199.9 V	0.1 Vac
	0.5%	0 to 600 V	1 Vac
DC Current	0.5%	0 to ±1.999 mA	1 µA dc
	0.5%	0 to ±19.99 mA	10 µA dc
	0.5%	0 to ±199.9 mA	100 µA dc
	0.5%	0 to ±1.999 A	1 mA dc
	0.5%	0 to ±5.00 A	10 mA dc
High DC Current Requires 60 mV, 100 mV and 150 mV shunts. (not included)	0.5%	0 to ±50 A	0.1 A
	0.5%	0 to ±100 A	0.1 A
	0.5%	0 to ±200 A	0.1 A
	0.5%	0 to ±500 A	1 A
	0.5%	0 to ±1000 A	1 A
High AC Current Requires 1A or 5A current transformers. (not included)	0.5%	0 to ±1500 A	1 A
	0.5%	0 to ±2000 A	1 A
	0.5%	0 to 50 A	0.1 A
	0.5%	0 to 100 A	0.1 A
	0.5%	0 to 200 A	0.1 A
Process	0.5%	0 to 500 A	1 A
	0.5%	0 to 1000 A	1 A
	0.5%	0 to 1500 A	1 A
	0.5%	0 to 2000 A	1 A
	0.5%	0-20 mA, 4-20 mA	1 count of ±1999 counts
Frequency	0.5%	0-5 Vdc, 1-5 Vdc	1 count of ±1999 counts
	0.5%	0-10 Vdc	1 count of ±1999 counts
	0.5%	0-1 kHz	1 Hz**

* Accuracy ±1 digit

** Input voltage: 50 mV to 600 V

Ordering Guide

Model 1000

DCV – DC volt meter
ACV – AC volt meter
DCA – DC current meter
PROC – Process meter
XCTV – High AC current meter
XDCA – High DC current meter
FREQ – Frequency meter

10 – 115 Vac input power
20 – 220 Vac input power
30 – 24 Vac input power

OPTIONS (1 per unit)

ALM – 5A dual alarm with 10 Vdc excitation power supply option
XPS – 10 Vdc excitation power supply option

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Doric 1000 Pro



Digital Panel Meters



The new Doric 1000 Series digital panel meters are suitable for a wide range of display applications. Designed as a low-cost solution, they offer ruggedness and reliability for many current, voltage, frequency and process applications.

A full range of inputs can be measured simply by selecting the proper externally accessible terminals located at the rear of the unit. The decimal point location can be changed by moving the jumpers behind the detachable face plate.

Doric 1000 Series consists of seven models measuring DC Voltage, AC Voltage, DC current, high AC current, high DC current, scalable process and frequency inputs. Engineering unit labels are supplied to indicate measured value.

The high DC current model 1000-XDCA is used with 60 mV, 100 mV, 150 mV shunts, and the high AC current model 1000-XCTV is used with 1 A or 5 A current transformers.

An alarm setpoint option provides for Hi and Lo (dual) alarm with 5A relays that can be hooked up to on/off control elements. A front panel LED illuminates when the alarm trips.

- 1/8 DIN
- Economical
- Ideal for Process, Voltage, Frequency and Current Applications
- Large 0.56" (14.2 mm) Red LED 3-1/2 Digit Display
- Jumper Selectable Ranges
- Wide Input Range:
 - DC Voltage
 - AC Voltage
 - DC Current
 - High DC Current
 - High AC Current
 - Scalable Process
 - Frequency
- Optional Dual Alarm and Excitation Power Supply

In addition, an optional DC Excitation power supply which provides 30mA at 10 Vdc can also be specified when ordering the Doric 1000 Series.

The New Doric
1000 Pro