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Low Cost, 3 1/2 Digit Voltmeters
MODEL 201A & 201AN



201AN-5 shown actual size.

1 YEAR WARRANTY

STANDARD FEATURES
- ☑ ±1,999-count display span
- ☑ ±200 mV to ±200 Vdc ranges
- ☑ True-differential input with 80 dB CMR
- ☑ 3-wire ratio input
- ☑ Bright, 14.2 mm (0.56") LED display
- ☑ Automatic zero and polarity
- ☑ Display hold and test
- ☑ 115/230 Vac power
- ☑ 1/8 DIN case

OPTIONS
- ☑ Isolated 9-32 Vdc power
- ☑ Isolated 26-56 Vdc power
- ☑ Screw-terminal barrier strip
- ☑ NEMA-4 (IP65) splash-proof lens cover

Models 201A and 201AN are two pinout versions of the same low-cost 3 1/2 digit DC voltmeter. They fit a standard 1/8 DIN panel cutout and require a depth of less than 104 mm (4.1") behind the panel. With the addition of a screw-terminal barrier strip, they become low-cost, pin-compatible alternatives to the Q2000A and Q2000B in applications where indication-only is required.

INPUT RANGES
The 201A and 201AN offer voltage ranges of ±0.1999 V, ±1.999 V, ±19.99 V and ±199.9 V dc. The input is true-differential, with excellent common-mode noise rejection (CMR). By using an external DC voltage reference, any of these ranges can further be configured for 3-wire ratio measurement with readout from 0 to 1.999.

TWO PINOUTS
Model 201A is pin-compatible with Newport's older Model 201 and is recommended for existing 201 applications.

Model 201AN is pin-compatible with Newport's 202A, 2001A, 2002B Series and is recommended for new applications.

OPTIONS
The 201A and 201AN can be configured for four voltage input ranges, three decimal-point positions, and high- impedance 3-wire ratio input. Mechanical options include a screw-terminal barrier strip for signal and power and a splash-proof lens cover which meets NEMA-4 (IP65) standards.

Specifications

NOISE REJECTION
NMR: 56 dB, 50/60 Hz
CMR, AC GND to SIG GND: 120 dB, DC to 60 Hz
CMR, SIG LO to SIG GND: 80 dB, DC to 60 Hz
CMV, AC GND to SIG GND: 1500 Vp per HV test, 354 Vp per IEC spacing
CMV, SIG LO to SIG GND: ±1 Vp

POWER
AC voltage: 115 or 230 Vac, ±15%
AC frequency: 49-440 Hz
DC voltages: 9-32 Vdc, isolated to 300 Vp; 26-56 Vdc, isolated to 300 Vp
Power consumption: 2.4 W (nominal)
Output voltages: +4.7 Vdc
and -4.6 Vdc ±5%, 10 mA max

DISPLAY
Type: 7-segment, red LED
Height: 14.2 mm (0.56")
Symbols: -1.8.8.8
Decimal points: Three positions programmable internally or at connector
Overrange indication:
Three least-significant digits blank

ENVIRONMENTAL

Operating temperature: 0 to 60°C
Storage temperature: -40 to 85°C
Relative humidity: 95% at 40°C (non-condensing)

ANALOG-TO-DIGITAL CONVERSION

Technique: Dual-slope, average-value
Polarity: Automatic
Signal integration period: 100 ms

ANALOG INPUT

Range	±199.9 mV	±1.999 V	±19.99 V	±199.9 V
Resolution	100 µV	1 mV	10 mV	100 mV
Maximum Input	130 Vp	130 Vp	250 Vp	250 Vp
Input Resistance	1 Gohm	1 Gohm	1.1 Mohm	1.0 Mohm
Bias Current	50 pA	50 pA	5 pA	1 pA

3-WIRE RATIO REFERENCE

Analog Input Range	±200 mV	±2, ±20, ±200 V
External Reference Input	+0.05 to +0.2 V	+0.5 to +2.0 V
Load on Reference, STD	30.6 kohm	65.3 kohm
Load on Reference, OPT	100 Mohm	100 Mohm
Accuracy	99.9%	99.9%

SIGNALS

HOLD and TEST inputs: TTL or 5 V CMOS compatible

MECHANICAL

Bezel: 96 W x 48 H x 5.1 mm D (3.78 x 1.89 x 0.20")
Depth Behind Bezel: 104 mm (4.09")
Panel Cutout: 92 W x 45 mm H (3.62 x 1.77")
Weight: 14 oz (400 g)
Case material: 94V-0 UL-rated polycarbonate

ACCURACY AT 25°C

Maximum error: ±0.05% of reading ±1 count
Span tempco: ±0.01% of reading/°C
Step response: 1 s
Warmup to rated accuracy: 10 min

INPUT CONFIGURATION

Configuration: Differential, bipolar
Zero: Automatic
Span Adjustment: ±5%

To Order *Visit omega.com/info for Pricing and Details*

Model No.								Description
201AN								3 ½ Digit Voltmeter for new applications
201A								3 ½ Digit Voltmeter
	-2							±199.9 mVdc
	-3							±1.999 Vdc
	-4							± 19.99 Vdc
	-5							±199.9 Vdc
		*						(Nothing, leave field blank) Standard 3-wire ratio input impedance
		,HZ						High impedance (100 mOhm)
			*					(Nothing, leave field blank) Programmable at D1 connector
			,DP1					1.999, internally-wired
			,DP2					19.99, internally-wired
			,DP3					199.9, internally-wired
				*				(Nothing, leave field blank) 115 Vac, 50/60 Hz power
				,C1				230 Vac, 50/60 Hz
				,C3C				Isolated 9-32 Vdc
				,C3E				Isolated 26-56 Vdc
					*			(Nothing, leave field blank) Red LED display
					,G			Green LED display
						*		(Nothing, leave field blank) No Option
						,D4		Screw-terminal barrier strip for power and signal (removes power and signal from D1) 201AN only. D4 option required for CE
							*	(Nothing, leave field blank) No Option
							,BL	Lens without Newport logo

NOTE: *All combinations may not be valid, check spec sheet for valid part numbers.*
Ordering Examples: 201AN-2-D4*, for 3½ digit DC voltmeter with ±199.9 mV dc, screw terminal barrier strip*

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