

- ✓ Full-size 14.2 mm (0.56") LED Display
- ✓ 3 1/2" Digit Display
- ✓ Analog Output Standard



LARGE DISPLAY, SMALL CASE

The NEWPORT® 205 provides a full-size 14.2 mm (0.56"), red or green LED display, yet is housed in a miniature case with a 24 x 72 mm (0.94 x 2.83") bezel. The case fits into a standard 3/64 DIN cutout, 22.2 x 68 mm (0.87 x 2.68") and requires a depth of less than 120 mm (4.72") behind the panel, including plug-in screw-clamp connectors (standard).

EASY TO SCALE

The 205 may be shipped fully calibrated to meet a customer's specific requirements (205-FSE). Five signal ranges can be selected via push-on jumpers and precision potentiometers which are readily accessible behind the lens to provide zero and span adjustments of 2000 counts each. Accuracy is 99.9% of reading.

MULTIPLE AC POWER OPTIONS

The 205-E incorporates a power supply, which is available for 24, 100, 115, or 230 Vac power. All power options provide EMI filtering, so that power line noise does not affect the reading.

TEMPERATURE

To Order (* Complete Model No.)				
Model Number	Input	Description		
205	(*)		T/C Input, % DIN CASE	
	Range Code		Resolution	Range
JC1-R, C0 JC2-R, C0 JF1-R, C0 JF2-R, C0	J Iron-Constantan	1°C 0.1°C 1°F 0.1°F	-210 to 760°C -199.9 to 199.9°C -346 to 1400°F -199.9 to 199.9°F	
KC1-R, C0 KC2-R, C0 KF1-R, C0 KF2-R, C0	K Chromel-Alumel	1°C 0.1°C 1°F 0.1°F	-105 to 1372°C -199.9 to 199.9°C -157 to 1999°F -199.9 to 199.9°F	
TC1-R, C0 TC2-R, C0 TF1-R, C0 TF2-R, C0	T Copper Constantan	1°C 0.1°C 1°F 0.1°F	-105 to 400°C -199.9 to 199.9°C -157 to 752°F -199.9 to 199.9°F	
EC1-R, C0 EC2-R, C0 EF1-R, C0 EF2-R, C0	E Chromel-Constantan	1°C 0.1°C 1°F 0.1°F	-105 to 1000°C -199.9 to 199.9°C -157 to 1832°F -199.9 to 199.9°F	
MC1-R, C0 MC2-R, C0 MF1-R, C0 MF2-R, C0	RTD 100 ohm Pt	1°C 0.1°C 1°F 0.1°F	-200 to 850°C -199.9 to 199.9°C -328 to 1562°F -199.9 to 199.9°F	

Display Options: To order with green display, change R to G in model number, no additional cost; **Power Options:** for non-isolated 9-26 Vdc, change C0 to C2A in model number, no additional cost.

Ordering Example: 205-KC1-R-C0, type K meter, with -105 to 1372°C range, 1°C resolution, red display, 115 Vac; 205-FSP,R,C0, Customer-specified zero and span. Specify min input, min reading; max input, max reading.

Example: 4-20 mA = 50.0-150.0. Specify decimal point position for display;

205-FSE,R,C0, Customer-specified zero, span and excitation output.

Specify min input, min reading; max input, max reading; and excitation output (10 or 24 Vdc) Example: 4-20 mA = 50.0-150.0; excitation = 24 Vdc.

Specify decimal point position for display.



62.5% less panel space than 1/8 DIN with the same size display!

SPECIFICATIONS - TEMPERATURE

Accuracy, Thermocouple: 1° models: ±1.5°C (±2.7°F) +1 count; 0.1° models: ±1°C (±1.8°F) +1 count

Accuracy, RTD: 1° models: ±0.3°C (±0.5°F) +0.2% rdg; 0.1° models: ±0.1°C (±0.2°F) +0.2% rdg; ±1.5°C (±2.7°F) max error

Analog Output: 1 non-isolated, 1 mV per degree for 1° resolution units, 10 mV per degree for 0.1° resolution units

Read Rate: 2.5/sec

Response Time: 1 sec

SPECIFICATIONS - PROCESS

Accuracy at 25°C Maximum Error: ±0.05% of reading ±1 count

COMMON SPECIFICATIONS

Display: 3½ digit LED, 14.2 mm (0.56") digits

Power Consumption: 2 watts

Operating Temperature: 0 to 60°C (32 to 140°F)

Dimensions: 24 H x 72 W x 120 mm D (0.94 H x 2.83 W x 4.72" D)

Panel Cutout: ¾ DIN 22.2 x 63 mm (0.87 x 2.68")

Weight: 200 g (7 oz)

PROCESS

To Order (* Complete Model No.)				
205-	(*), (*), (*)		Scalable, 24 Vdc excitation	
	EA1		4-20 mA dc = 000 to 100.0	
	EV2		0-199.9 mV = 000 to 100.0	
	EV3		1-5 Vdc = 000 to 100.0	
	EV4		0-10 Vdc = 000 to 100.0	
	EV5		0-100 Vdc = 000 to 100.0	
	FSE		Customer specified	
205-	(*), (*), (*)		Scalable without excitation	
	PA1		4-20 mA dc = 000 to 100.0	
	PV2		0-199.9 mV = 000 to 100.0	
	PV3		1-5 Vdc = 000 to 100.0	
	PV4		0-10 Vdc = 000 to 100.0	
	PV5		0-100 Vdc = 000 to 100.0	
	FSP		Customer specified	
205-	(*), (*), (*)		Fixed range voltmeter	
	AV2		±199.9 mV = ±199.9	
	AV3		±1.999V = ±1.999	
	AV4		±19.99V = ±19.99	
	AV5		±199.9V = ±199.9	
	R		Red display	
	G		Green display	
	C0		115 Vac, 50-60 Hz	
	C1		230 Vac, 50-60 Hz	
	C2		7-32 Vdc for 205A, 205-P only	