

- ✓ 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	<b>J</b> 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	<b>K</b> 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	<b>T</b> 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	<b>E</b> 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	<b>RTD</b> 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