



The PPC-3300 is a rugged portable digital pressure calibrator. This multi-functional instrument incorporates state of the art digital pressure and electrical measurement technologies to facilitate the calibration of pressure transmitters and switches.

Signal outputs from the integral pressure sensors are supplied to a 16 bit analog to digital converter for process, filtering and control. This circuitry design provides for accuracy of .05% reading for pressure. The integral isolated pressure sensors (30 PSIG and 3000 PSIG) are made of 316SS and are designed to stand up to tough applications as well as corrosive media applications when required.

The PPC-3300 is housed in a water resistant NEMA 4X ABS case which has an ergonomic design for ease of operation. All controls including power, zero and engineering unit selection, are via a sealed membrane keypad for reliable operation in adverse weather conditions.

The combination of high accuracy measurement technology and robust design makes the PPC-3300 the ideal choice to tackle your demanding pressure and electrical monitoring as well as test and calibration applications.

## PPC-3300

### Dual Range Pressure Calibrator with .05% of Reading Accuracy!

#### Features

- Dual isolated 316 stainless steel pressure sensors with a rugged nickel plated manifold designed for harsh environments.
- Robust design - A NEMA 4X water resistant sealed case and a sealed membrane keypad suited for the most rigorous applications.
- Versatile broad pressure ranges individually temperature compensated for high accuracy over a broad operating range of 0-50°C.
  - 0-30 PSIG + 0.05% of reading + .002 PSI
  - 0-3000 PSIG + 0.05% of reading + .2 PSI
- Engineering units: PSI, inH<sub>2</sub>O (4°C), inH<sub>2</sub>O (20°C), inH<sub>2</sub>O (60°C), ftH<sub>2</sub>O (4°C), ftH<sub>2</sub>O (20°C), cmH<sub>2</sub>O (4°C), cmH<sub>2</sub>O (20°C), mH<sub>2</sub>O (4°C), mH<sub>2</sub>O (20°C), BAR, Kg/cm<sup>2</sup>, kPa, mPa, mmHg, mHg.
- Communications through an RS232 port for real time data transfer to a PC or printer.
- Dual Range - ideal for custody transfer and mass flow applications.
- % Error function automatically calculates transmitter error during calibration.
- Integral 24 VDC power supply to power various devices under test.
- MIN/MAX storage and retrieval
- Class I Division I Group C & D Certification pending
- Pressure switch test feature

#### Each unit includes:

Test leads, carrying case, 4 AA alkaline batteries, NIST Certificate, and instruction manual

#### General Specifications

Pressure	
Ranges:	-5 PSI to 30.000 PSI -14 PSI to 3000.0 PSI
Accuracy:	-14 to 0 PSI ±0.2% of reading ±0.002 PSI 18°C to 28°C 0 to 30 PSI ±0.05% of reading ±0.002 PSI 0 to 3000 PSI ±0.05% of reading ±0.002 PSI
Electrical	
Ranges:	0 to 24.000 mA 0 to 10.000 V
Accuracy:	±0.025% of reading ±2 LSD 18°C to 28°C
Input Protection:	1/8 A Fuse
Environmental	
Operating Temp:	0°C to 50°C
Storage Temp:	-20°C to 60°C
Stability:	±.005% F.S./ °C for both pressure and electrical for temperatures outside of 23°C ±5°C
Media	
Any gases/liquids compatible with 316 stainless steel and nickel plated brass	
Power	
4 AA Alkaline Cells or 4 AA Ni-Cd Cells, Optional AC Adaptor/Charger Available	
Size	
7½" x 4" x 1½"	

MODEL NO.	DESCRIPTION
PPC-3300	Dual Range Pressure Calibrator
PPC-3300K	Dual Range Pressure Calibrator Kit
MECP100	Hand Pump
C232SJ	RS232 Cable with miniature plug
10077	AA Ni-Cd Batteries (requires 4)
1001-9V	Optional A/C Adapter/Charger

## MC-1000 Multi-Function Calibrator

### Range & Accuracy

Range	Min	Max	Accuracy (% of reading ± counts)
V Read (low)	0.000	20.000	0.015% ± 2
VDC Read (high)	0.0	250.0	0.05% ± 2
VAC Read (high)	0.0	250.0	0.5% ± 2
V Source	0.000	10.000	0.015% ± 2
mV Read	0.00	90.00	0.015% ± 2
mV Source	0.00	100.00	0.015% ± 2

mA Read	0.000	24.000	0.015% ± 2
mA Source	0.000	24.000	0.015% ± 2

CPM Source	1.0	600.0	± 0.05%
Hz Source	1	1000	± 0.05%
KHz Source	1.00	10.00	± 0.25%
CPM Read	0.0	600.0	0.05% ± 1
Hz Read	0	1000	0.05% ± 1
KHz Read	0.00	10.00	0.05% ± 1

Range	Min	Max	Accuracy
Ohms Read 4w (low)	0.00	400.00	0.1 ohm
Ohms Read 4w (high)	400.0	1500.0	0.5 ohm
	1500.1	4000.0	1.0 ohm

Range	Min	Max	Excitation Current	Accuracy
Ohms Source (low)	5.00	400.00	0.1 to 0.5 mA	0.15 ohm
	5.00	400.00	0.5 to 3 mA	0.1 ohm
Ohms Source (high)	400.0	1500.0	0.05 to 0.8 mA	0.5 ohm
	1500.0	4000.0	0.05 to 0.4 mA	1.0 ohm

### Thermocouple Read and Source (All errors included)

Range	Min	Max	Accuracy
J Thermocouple	-200.0	0.0	0.6°C
	0.0	1200.0	0.4°C
K Thermocouple	-200.0	0.0	0.8°C
	0.0	1370.0	0.5°C
T Thermocouple	-200.0	0.0	0.8°C
	0.0	400.0	0.5°C
E Thermocouple	-200.0	0.0	0.5°C
	0.0	950.0	0.4°C
R Thermocouple	-20	0.0	2.49°C
	0	500	1.7°C
	500	1750	1.3°C
S Thermocouple	-20	0	2.4°C
	0	500	1.7°C
	500	1750	1.4°C
B Thermocouple	600	800	2.1°C
	800	1000	1.7°C
	1000	1800	1.3°C
L Thermocouple	-200	0.0	0.45°C
	0.0	900.0	0.4°C
U Thermocouple	-200	0.0	0.7°C
	0.0	400.0	0.45°C
N Thermocouple	-200	0.0	1.1°C
	0.0	1300.0	0.6°C
mV Read/Source	-10.00	75.00	0.015% ± .02 mV

### RTD Read and Source

Range	Min	Max	Accuracy
Ni120	-80.0	260.0	0.2°C
Pt100 (385)	-200.0	800.0	0.33°C
Pt100(3926)	-200.0	630.0	0.3°C
Pt100(3916)	-200.0	630.0	0.3°C
Pt200(385)	-200.0	630.0	0.8°C
Pt500(385)	-200.0	500.0	0.3°C
	500.0	630.0	0.4°C
Pt1000(385)	-200.0	100.0	0.2°C
	100.0	630.0	0.3°C
Cu10	-100.0	250.0	2.2°C
YSI400	15.00	50.00	0.05°C

## PPC-3300 Dual Range Pressure Calibrator with .05% of Reading Accuracy!

### Range & Accuracy

Port 1				
Range	Min	Accuracy (% of reading ± counts)	Max	Accuracy (% of reading ± counts)
PSI	-5.000 to 0	±0.2% ± 2	0 to 30.000	0.05% ± 2
mmHg	-258.5 to 0	±0.2% ± 2	0 to 1551.3	0.05% ± 1
Bar	-0.3448 to 0	±0.2% ± 2	0 to 2.0685	0.05% ± 1
KPa	-34.48 to 0	±0.2% ± 2	0 to 206.85	0.05% ± 1
inH <sub>2</sub> O-4C	-138.40 to 0	±0.2% ± 2	0 to 830.40	0.05% ± 6
inH <sub>2</sub> O-20C	-138.65 to 0	±0.2% ± 2	0 to 831.89	0.05% ± 1
inH <sub>2</sub> O-60F	-138.54 to 0	±0.2% ± 2	0 to 831.24	0.05% ± 6
cmH <sub>2</sub> O-4	-351.5 to 0	±0.2% ± 2	0 to 2109.0	0.05% ± 1
cmH <sub>2</sub> O-20	-352.2 to 0	±0.2% ± 2	0 to 2113.0	0.05% ± 1
Kg/cm <sup>2</sup>	-0.3515 to 0	±0.2% ± 2	0 to 2.1090	0.05% ± 1
inHg	-10.18 to 0	±0.2% ± 2	0 to 61.08	0.05% ± 1
ftHg	-0.848 to 0	±0.2% ± 2	0 to 5.090	0.05% ± 1

Port 2				
Range	Min	Accuracy (% of reading ± counts)	Max	Accuracy (% of reading ± counts)
PSI	-14.0 to 0	±0.2% ± 2	0 to 3000.0	0.05% ± 2
mHg	-0.72 to 0	±0.2% ± 2	0 to 155.13	0.05% ± 1
Bar	-0.97 to 0	±0.2% ± 2	0 to 206.85	0.05% ± 1
KPa	-97 to 0	±0.2% ± 2	0 to 20685	0.05% ± 1
ftH <sub>2</sub> O-4C	-32 to 0	±0.2% ± 2	0 to 6920	0.05% ± 1
ftH <sub>2</sub> O-20C	-32 to 0	±0.2% ± 2	0 to 6932	0.05% ± 1
ftH <sub>2</sub> O-60F	-32 to 0	±0.2% ± 2	0 to 6927	0.05% ± 1
mH <sub>2</sub> O-4	-9.8 to 0	±0.2% ± 2	0 to 2109.0	0.05% ± 1
mH <sub>2</sub> O-20	-9.9 to 0	±0.2% ± 2	0 to 2113.0	0.05% ± 1
Kg/cm <sup>2</sup>	-9.84 to 0	±0.2% ± 2	0 to 2109.0	0.05% ± 2
inHg	-29 to 0	±0.2% ± 2	0 to 6108	0.05% ± 1
ftHg	-2.4 to 0	±0.2% ± 2	0 to 509.0	0.05% ± 1
V	0.000 to 0	±0.2% ± 2	0 to 10.000	0.025% ± 2
mA	0.000 to 0	±0.2% ± 2	0 to 24.000	0.025% ± 2



### PPC-3300 Kit

Kit includes:  
 PPC-3300,  
 MECP100  
 Hand Pump,  
 test leads,  
 carrying case, A/C  
 adapter/charger,  
 4 AA alkaline  
 batteries,  
 NIST Certificate,  
 instruction manual,  
 and fittings