

# Replacement Guide for Pressure Controllers and Indicators



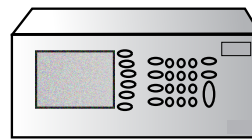
Replacement Guide · 09/2017

## What to Replace

- Obsolete instruments
- Unserviceable instruments
- Instruments with high service costs
- Instruments with long service times
- Instruments that must be out of service during calibration

## When to Replace

- Service costs are high
- Service turnaround time is too long
- Value and utility of the instrument is low
- Turnaround time for calibration is long
- Technology is outdated



Have this?



Replace with this.

## Replace the old with the new

### Why Replace?

Instruments of various ages eventually wear out, become obsolete or are surpassed by improving technology. In the pressure calibration industry, manufacturers continue to strive for better accuracy, ease of use, modularity and serviceability. Most of these instruments are built to last, but in some cases parts become unavailable. Instruments should be replaced when cost of ownership becomes intolerable or when a newer unit can deliver more value in the long run.

### Deciding to Replace

Evaluating when to replace an instrument can be easy if it is determined that the cost of ownership is too high. Perhaps the instrument requires frequent service, is out of service for extended periods of time during calibration, or service turnaround is slow. Maybe current technology in transducer accuracy and modularity has surpassed the capabilities of an old instrument, or communication protocols are obsolete or outdated. It could be that the intuitive user interface available on newer instruments makes training new technicians more efficient. It makes sense to replace an old instrument when a new instrument will save time and money.

### Drop in Replacement

Mensor precision pressure controllers / calibrators and pressure indicators are compatible with communication software from previous Mensor models. All new Mensor instruments also come standard with emulation command sets. These command sets make it possible to have drop in compatibility with competitive controllers and indicators. Emulation commands are available for GE (Druck) and Fluke (Ruska and DHI) devices. Consult the factory for specific emulation sets.

### Communication

Mensor controllers and indicators are available with IEEE-488, USB, Ethernet and RS232 communication. In addition, a USB instrument port is available for downloading information or uploading software to the instrument.

### Intuitive Interface

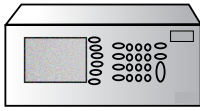
Mensor controllers and indicators come with intuitive touchscreen user interfaces utilizing icon driven menus, where functions and process information is accessible and easily understood.

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# Precision Pressure Controller / Calibrator Recommended Replacement

Recommended Mensor controller replacements for some competitive controllers and older Mensor controllers



Replace with →



REPLACE	
Mensor	PCS410 HPCU
Fluke (Ruska)	Models 7250i, 7250xl
Fluke (DHI)	PPC4

CPC8000	
Range	0 ... 7.5 up to to 6015 psia 0 ... 5 up to 6000 psig
Accuracy	0.01% IS-50 to 0.008% IS-33
Channels	One
Transducers	Up to three (interchangeable)
Communication	IEEE-488, Ethernet, USB, RS232
Emulation	Mensor, WIKA SCPI, Ruska 6610



Replace with →



REPLACE	
Mensor	Model 8204, 8100
Mensor	PCS400, PCS4000M
GE (Druck)	PACE 6000
Fluke (Ruska)	Model 7250, 7000 Series

CPC6050	
Range	0 ... 7.5 up to 3060 psia 0 ... 0.36 up to 3045 psig
Accuracy	0.01% FS to 0.01% IS-50
Channels	One or two
Transducers	Up to two per channel (interchangeable)
Communication	IEEE-488, Ethernet, USB, RS232
Emulation	Mensor, WIKA SCPI, Ruska 7010, GE Pace



Replace with →



REPLACE	
Mensor	PCS400, PCS400M
GE (Druck)	PACE 5000, Druck 510
Various	Industrial deadweight testers
Various	Pressure comparators

CPC4000	
Range	0 to 3060 psia -15 to 3045 psig
Accuracy	0.02% FS to 0.02% IS-50
Channels	One
Transducers	Up to two
Communication	IEEE-488, Ethernet, USB, RS232
Emulation	Mensor, WIKA SCPI, Ruska 7010, GE Pace

**Note:** Controller comparisons are given on a like-for-like basis with respect to general specifications. Detailed inspection of all specifications should be reviewed to ensure a compatible instrument is chosen for each application.

# Precision Pressure Indicators Recommended Replacement

Recommended Mensor indicator replacements for some competitive indicators and older Mensor indicators



Replace with →



REPLACE	
Mensor	DPGs: 11600, 11900, 14000, 14500, 15000, 16500, 2100 series, older CPG2500
Paroscientific	Model 745
Fluke	7050, RPM4
GE (Druck)	PACE 1000 series, DPI150

CPG2500	
Range (Standard)	0 ... 7.5 up to 10,015 psia 0 ... 0.36 up to 10,000 psig
Range (Premium)	0 ... 12 up to 42,000 psia 0 ... 12 up to 220 psig
Accuracy	0.01% IS-50 to 0.008% IS-33
Channels	One
Transducers	Up to three (interchangeable)
Communication	IEEE-488, US232, USB, Ethernet



Replace with →



REPLACE	
Mensor	DPGs: 11600, 11900, 14000, 14500, 15000, 16500, 2100
GE (Druck)	Pace 1000, DPI150
Fluke (Ruska)	7250

CPG2400	
Range	0 ... 7.5 up to 6,015 psia 0 ... 0.36 up to 6,000 psig
Accuracy	0.03% FS
Channels	One
Transducers	One
Communication	RS232 or RS485



Replace with →



REPLACE	
WIKAr	CPG1000
GE (Druck)	DPI104
Fluke	700G, 2700G
Ametek (Crystal)	XP2i, M1
Omega	DPG7000 Series
Ashcroft	2089
Additel	680, 681
Various	Mechanical test gauges

CPG1500	
Range	0 ... 3.5 up to 500 psia 0 ... 1.5 up to 150,000 psig
Accuracy	0.05% FS
Transducers	One
Communication	WIKA Wireless

**Note:** Indicator comparisons are given on a like-for-like basis with respect to general specifications. Detailed inspection of all specifications should be reviewed to ensure a compatible instrument is chosen for each application.

## World-class Service and Calibration

Authorized Service Centers in the United States, Europe and China

### Warranty

All products manufactured by Mensor are warranted to be free of defects in workmanship and materials for a period of two years from the date of shipment.

### Calibration Service

Mensor provides calibration service for all of our products, as well as a wide range of other instruments from manufacturers such as GE (Druck), Fluke (Ruska, DHI), Crystal, PSI, Heise, Ametek, Paroscientific, Additel and more.

The Mensor pressure calibration laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 and also meets the requirements of ANSI/NCSL Z540-1-1994. Accreditation is by the American Association for Laboratory Accreditation (A2LA).

Pressure Calibration Scope	
Calibration Type	Range
Pneumatic Gauge Pressure	-ATM ... 6000 psig
Pneumatic Absolute Pressure	0 ... 6015 psia
Hydraulic Gauge Pressure	0 ... 30,000 psig
Hydraulic Absolute Pressure	0 ... 30,015 psia
Pneumatic True Differential	Line pressures to 4000 psi

### Repair Service

The main repair facility for Mensor products is located in San Marcos, Texas. Remote repair locations are in Germany and China. All repair work performed at the Mensor location is covered by a 90 day warranty, which includes parts and labor. Please notify Mensor or your local authorized service center for repair or calibration needs.

### Authorized Service Centers

United States	Europe	China
Mensor 201 Barnes Drive San Marcos, TX 78666  Phone: (512) 396-4200 or (800) 984-4200 (U.S. and Canada) Fax: (512) 396-1820 Email: techservices@mensor.com	Europe Service Center CT Service Team  Phone: +49 9372 132-5049 Fax: +49 9372 132-8005049 Email: CTServiceteam@wika.com	China Service Center Baggio Li  Phone: 400 928 9600 Fax: +86 512 6809 2321 Email: baggio.li@wika.com



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