

## Pressure Transducers



### Venous Pressure Transducer P75

The P75 has a removable Macrolon® dome with a pressure connection and a vent connection at the side, so that it can be filled free of air bubbles. The dome connections have a male Luer taper so that suitable stopcocks can be attached. The transducer has a metal housing. The actual pressure sensor inside is made from ceramic and therefore has excellent resistance to different media. The transducer's rugged construction can withstand pressure overloads up to 4000 mmHg without damage. It works together with any DC bridge amplifier (e.g., PLUGSYS TAM-A).

- For low liquid and gas pressure measurement  $\pm 75$  mmHg
- Increased sensitivity and baseline stability
- Applications include:
  - Venous blood pressure
  - Oesophageal pressure with fluid filled catheter
  - Perfusion pressure on isolated lung and liver
  - Perfusion pressure on perfused hollow organs like the oesophagus
- Robust construction, easy to fill bubble free



- Inexpensive
- Reliable
- Accurate

### ISOTEC™ Transducers

This ISOTEC™ Transducer is an inexpensive pressure transducer. It can be used for measurement of arterial pressure in vivo as well as for perfusion pressures in isolated perfused organs such as heart or kidney. The ISOTEC™ Transducer consists of a cable with a plug on each end and the inexpensive transducer head itself, which can easily be replaced if defective.

#### Specifications

Pressure Range	$\pm 75$ mmHg ( $\pm 100$ cm H <sub>2</sub> O)
Volume Displacement	0.06 mm <sup>3</sup> /10 mmHg
Linearity	$\pm 0.15$ mmHg
Long-Term Drift	$\pm 0.04$ mmHg
Overload	-760 (= vacuum) to 4000 mmHg
Measurement Media	All gases and liquids which do not attack Macrolon®
Temperature Range	0° to 50°C
Zero Drift	$\pm 0.04$ mmHg/10°C (0° to 50°C)
Range Drift	$\pm 0.04$ mV/10°C ( $\pm 0.04$ mmHg/10°C) (0° to 50°C)

#### Specifications

Operating Pressure	-50 to 300 mmHg
Overpressure	-500 to 4000 mmHg
Sensitivity	5 $\mu$ V/V/mmHg
Accuracy	$< \pm 1.5\%$ of reading or $\pm 1.0$ mmHg (whichever is greater, as result of combined errors of linearity, hysteresis, repeatability and sensitivity)
Excitation Voltage	10 V DC or AC RMS (up to 5 kHz) max
Zero Offset	$\pm 30$ mmHg max
Temperature Coefficient Zero Offset	$\pm 0.25$ mmHg/°C max
Zero Drift with Time	$< \pm 1.0$ mmHg/8 hrs
Temperature Coefficient of Sensitivity	$\pm 0.08\%$ /°C max
Operating Temperature	10° to 40°C

#### Catalog No. Product

<b>CGS 8008.72</b>	Blood Pressure Transducer P75 for PLUGSYS Module
<b>CGS 8009.72</b>	Blood Pressure Transducer P75 for Harvard Transducer Interface
<b>CGS 8010.27</b>	Blood Pressure Transducer P75 for Grass Amplifiers
<b>CGS 8011.72</b>	Blood Pressure Transducer P75 for Gould 6600 Series
<b>CGS 8012.72</b>	Blood Pressure Transducer P75 for Gould 4600 Series
<b>CGS 8013.72</b>	Replacement Dome for Venous Blood Pressure

#### Catalog No. Product

<b>CGS 8014.72</b>	ISOTEC™ Pressure Transducer for PLUGSYS Module
<b>CGS 8015.72</b>	ISOTEC™ Pressure Transducer for Harvard Transducer Interface
<b>CGS 8016.72</b>	ISOTEC™ Pressure Transducer for Grass Amplifiers
<b>CGS 8017.72</b>	ISOTEC™ Pressure Transducer for Gould 6600 Series
<b>CGS 8018.72</b>	ISOTEC™ Pressure Transducer for Gould 4600 Series
<b>CGS 8019.72</b>	Replacement Cable
<b>CGS 8020.72</b>	Replacement Transducer Head
<b>CGS 8021.72</b>	Three-Way Stopcock 9560R
<b>CGS 8022.72</b>	One-Way Stopcock 9500
<b>CGS 8023.72</b>	Stand for ISOTEC™ Transducer