



# Memscap<sup>®</sup> Pressure Transducer

CPJ840J5 and CPJ840J6

Memscap<sup>1</sup> reusable pressure transducers (CPJ840J5 and CPJ840J6) are highly accurate and well-built piezoresistive transducers to measure intracranial, gastrologic and intrauterine pressure as well as urodynamic measurements via catherization.

## Features:

The reusable transducer with its disposable dome offers flexibility, practicality and cleanliness for the most cost effective solution.

- Isolation of electrical parts from the housing
- Isolation of housing from the saline solution
- Silicone dome diaphragm
- No liquid between the transducer and the dome diaphragms
- Dome dry coupled with the transducer
- High overload protection: 10000mm Hg
- Disposable dome with easy to use "bayonet" coupling
- Gold plated for easier cleaning and hygiene
- High precision measurement
- High frequency response give unique signal resolution

The Memscap reusable pressure transducers were successfully tested with the following Philips (legacy Hewlett-Packard or Agilent) monitors:

## Fetal Monitors:

M1310A Series 50T  
 M1350B Series 50XM  
 M1350C Series 50 XMO  
 M1353A Series 50 IP-2

<sup>1</sup> Memscap is a registered trademark of Memscap Sensor Solutions Business Unit and distributed by Philips Medical Systems

## Patient Monitors:

M1006A and M1006B Pressure Module with the CMS, V24/V26 and IntelliVue patient monitors;  
 M3000A, M3001A Multi-Measurement Servers;  
 M3012A Hemodynamic Extension Server;  
 M3016A Mainstream CO<sub>2</sub> Extension Server.

## Accessories

CPJ84022	Single Use Sterile Domes
CPJ84447	IV Pole Mount
CPJ84046	Transducer Holder
CPJ84026	Line Set with Dome

Note: Standard line sets are available from Philips in some countries. Ask your local Philips representative for product availability.

# PHILIPS

## Transducer Specifications:

Pressure Range	-20 to +300 mm Hg
Maximum Overpressure	10000 mm Hg
Sensitivity	50 micro V/V/cm Hg
Resonance Frequency	300 Hz typical (with transducer dome)
Maximum Electrical Excitation	15V DC or AC
Input Resistance	CPJ840J5 = 350 ohm DC and AC CPJ840J6 = 700 ohm DC and 350 ohm AC
Output Resistance	1000 ohms
Non-Linearity and Hysteresis	Maximum 0.5% of full scale
Zero Balance	Maximum $\pm$ 30mm Hg
Thermal Sensitivity Shift	0.15% / °C
Thermal Zero Shift	Maximum 0.15mm Hg/ °C
Operating Temperature Range	+10°C to +50°C
Storage Temperature Range	-20°C to +70°C
Insulation Resistance	Minimum 1000 meg ohms from transducer case to leads.
Leakage Current	Maximum 1.5 micro amps at 250 VAC RMS 50 Hz from transducer case to leads.
High Voltage Resistance	> 10KV between saline in dome and transducer leads.
Weight	24 grams (without cable)
Length of Cable	3 meters



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