

# MEMSCAP

## SENSOR SOLUTIONS

### SP844 PHYSIOLOGICAL PRESSURE TRANSDUCER

MEMSCAP high-end sensors offer unique performance for your applications.

Proven high quality and reliability of our sensors that match all Medical standards provide unmatched results for pressure measurement during surgery and intensive care. This reusable transducer with its disposable dome offers flexibility, accuracy and reliability for the most cost effective solution.

#### APPLICATIONS :

- Invasive blood pressure
- Intracranial, gastrologic, intrauterine pressure
- Urodynamic measurements by catheterization

#### FEATURES :

- Piezoresistive transducer
- Isolation of electrical parts from the housing
- Isolation of housing from the saline solution
- Silicone dome diaphragm



#### BENEFITS :

- Reusable transducer
- Low cost disposal dome and monitoring set
- High frequency response gives unique signal resolution
- Gold plated for easier cleaning
- Dome dry coupled to the transducer
- Easily coupled and easy to fill dome
- High overload protection 10.000 mm Hg
- Long life expectancy and reliability

- Adaptable to any kind of pressure registration equipment



**Bei Rückfragen wenden Sie sich bitte an:  
For requests please contact:**

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# SP 844

## PHYSIOLOGICAL PRESSURE TRANSDUCER

### SPECIFICATIONS

Pressure Range	-20 to 300mmHg
Max. Overpressure	10 000mmHg
Sensitivity	50µV / V / cmHg
Resonant Frequency*	300 Hz typical (transducer and dome)
Max. Electrical Excitation	15V DC or AC
Input resistance	700 Ω (or equipment specified)
Output resistance	1000 Ω (or equipment specified)
Non-Linearity and Hysteresis	max 0.5% FSO
Zero Balance	max ± 70mmHg
Thermal Sensitivity Shift	0.15% /°C
Thermal Zero Shift	max 0.25mmHg /°C
Operating Temperature Range	+10°C to + 50°C
Storage Temperature Range	-20°C to +70°C
Insulation Resistance	min 10 <sup>3</sup> M Ω
Leakage Current	max 1.5µA at 250V, 50Hz
High Voltage Resistance	10 000V between saline in dome and transducer leads
Weight	24 grams (without cable)
Length of cable	25 cm
Adapter cable	2.5 m with equipment specified connector
Wiring information	
+ Excitation	Yellow
- Excitation	White
+ Signal	Green
- Signal	Grey

\* The frequency response may be limited by the length of the pressure tube



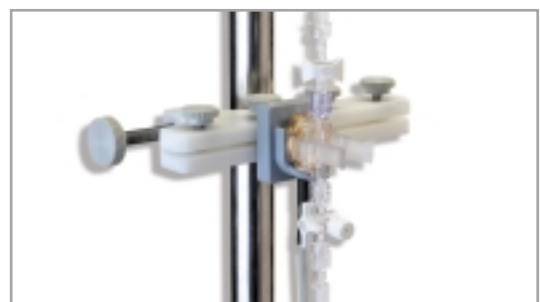
844-29 Dome (non sterile)



SP844 Physiological Pressure Transducer

#### Accessory list :

- 844-28 Dome, sterile
- 844-29 Dome, non-sterile
- 840-22 Dome, sterile
- 840-23 Dome, non-sterile
- 844-26 Monitoring line set
- 840-26 Monitoring line set
- 844-48 Holder
- 84X-49 Bracket



Mounted in hospital environment

All accessories to be ordered separately. Please contact one of our offices or [info@memscap.com](mailto:info@memscap.com) for quotes.