

新製品のご案内

CRS 評価用人体ダミー-Q ダミー用腹部圧力計 Abdominal Pressure Twin Sensor(APTS)の取扱いを開始致しました。APTS は IFSTTAR(French Institute of Science and Technology for Transport, Development and Networks)にて開発され Q ダミーシリーズの Abdominal Insert に装着し腹部への圧力を計測します。

APTS は Q1/Q1.5 用、Q3/Q6 用及び Q10 用の 3 種類が用意されています。

Technical Form

APTS SENSOR - ABDOMINAL PRESSURE TWIN SENSOR



The **APTS sensors**, developed by IFSTTAR (French Institute of Science and Technology for Transport, Development and Networks) **for the "Q-Series" dummies**, are an essential new tool for the in-depth assessment of child restraint systems.

Each APTS is composed of a soft cylindrical polymer bladder (currently polyurethane) filled with a viscous fluid and closed by aluminum caps. The fluid pressure is measured by a pressure cell (*specifications below*) implanted in the cap. Two APTS sensors are mounted inside the Q dummy abdomen in two cylindrical holes parallel to the lumbar spine. They thus enable the provision of relevant information needed for the **assessment of abdominal injuries**.

The **APTS is currently available in three sizes:**

- a nominal diameter of **30mm** for Q1/1.5 abdomen,
- a nominal diameter of **40mm** for Q3 and Q6 abdomens,
- a nominal diameter of **50mm** for the Q10 abdomen.

TECHNICAL SPECIFICATIONS

CAPTEUR TYPE / MODEL SENSOR XPR30-S102	Ref. XPR30-S102-10BS_Rev A
UTILISATION DESCRIPTION	Capteur de pression miniature Miniature pressure sensor
<p>Schéma électrique capteur</p>	<p>ETENDUE DE MESURE RANGE 10 BS Bar scellé / sealed</p> <p>SURCHARGE ADMISSIBLE OVERANGE 2 x l'étendue de mesure 2 x full scale</p> <p>TENSION D'ALIMENTATION EXCITATION 10 Vcc 10 Vdc</p> <p>SIGNAL A L'ETENDUE DE MESURE SIGNAL OUTPUT AT FULL SCALE 100 mV 100 mV</p> <p>DESEQUILIBRE OFFSET < ± 10 mV < ± 10 mV</p> <p>LINEARITE LINEARITY < ± 0.35% de l'étendue de mesure < ± 0.35% full scale</p> <p>HYSTERESIS HYSTERESIS < ± 0.25% de l'étendue de mesure < ± 0.25% full scale</p> <p>INDICE DE PROTECTION PROTECTION IP50</p> <p>PLAGE D'UTILISATION EN TEMPERATURE (OTR) OPERATING TEMPERATURE RANGE (OTR) -20°C à +80°C -20°C to +80°C</p> <p>PLAGE DE COMPENSATION EN TEMPERATURE (CTR) COMPENSATED TEMPERATURE RANGE (CTR) 0°C à +60°C 0°C to +60°C</p> <p>DERIVE DE ZERO DANS LA PLAGES COMPENSEE ZERO SHIFT WITHIN CTR < 3.5% de l'étendue de mesure / 50°C < 3.5% full scale / 50°C</p> <p>DERIVE DE SENSIBILITE DANS LA PLAGES COMPENSEE SENSIVITY SHIFT WITHIN CTR < 2.5% de la valeur lue / 50°C < 2.5% of reading / 50°C</p> <p>SORTIE ELECTRIQUE ELECTRICAL OUTPUT 3 conducteurs torsadés 3 twisted wires</p> <p>FICHE MOBILE MATING CONNECTOR -</p> <p>TYPE ET LONGUEUR DE CABLE CABLE OUTPUT Gaine silastène 3, longueur 4m Silastene jacket 3, 4m length</p>



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