

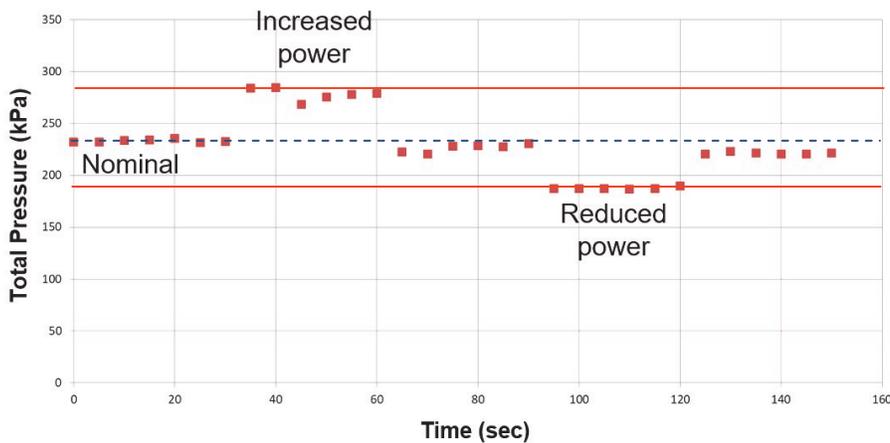
Cavitation Monitoring Sensor with Digital Pressure Meter

CMS-series, MCT-1200

Monitor the heartbeat of your ultrasonic cleaner! The externally mounted cavitation monitoring sensor (CMS) allows continuous monitoring of the cavitation performance inside an ultrasonic tank without cumbersome fixtures or disruption to the acoustic field. The self-adhesive housing has demonstrated to have comparable adhesion strength as marine grade epoxies without the messy and time consuming preparation steps. With the MCT-1200 software, the option to match with a reference such as an externally calibrated hydrophone is available. The CMS sensor and MCT-1200 fills a critical gap in process monitoring for precision cleaning processes.

Features

- Externally mounted assembly to continuously monitor the acoustic stability
- Avoid disrupting the acoustic field, cumbersome fixtures, exposure to harsh chemistries
- Self-reference with externally calibrated hydrophone for absolute measurements
- Simple “quick stick” transducer installation using self-adhesive housing
- Acoustically ready for single wall tank configurations
- Digital logging to detect real-time excursions



Process Control: Identify Process Excursions in Real-time



CMS Sensor with MCT-1200 Digital Pressure Meter



“Quick stick” mount with self-adhesive housing



The kit includes: sensor, housing, wave spring, VHB primer, locking piece, and MCT-1200 meter.

Technical Specifications

CMS-0300 Sensor

- **Frequency Range:**
20 to 300 kHz
- **Maximum Operating Temperature:** 70 °C
- **Housing Dimensions:**
Outer Diameter: 65 mm
Height: 27 mm
- **Sensor Dimensions:**
Diameter: 40 mm
Height: 15 mm
- **Cable:** memory embedded connector to store calibration data, 1.5 meter length

MCT-1200 Pressure Meter

- **Measured Parameters:**
Fundamental Frequency, F_O (kHz)
Total Pressure, P_{TOT} (kPa or unitless) *

* kPa units require self-calibration to absolute reference
- **Data Management:**
Touch panel display
Time averaging interval: 1-60 sec
Data logging to local memory
Self-calibration to match with reference meter
Remote access via Ethernet
Real-time data transfer for continuous monitoring
- **Power:**
Rechargeable battery, charger (5 VDC, 3A),
Estimated battery runtime: 4 hours
- **Labels:** CE Mark, FCC
- **Dimensions:**
76 mm (W) x 169 mm (H) x 30 mm (D)

Specifications are subject to change without notice.

Continuous Monitoring Set-up

