



McWade Monitoring Systems
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Acoustic Emission Sensor and Preamplifier Type PSA300



Standard Combined Pulsing Sensor and Preamplifier Type PSA300

Specification Type PSA300

Supply:	28-volt phantom fed (Industry Standard)
Gain:	40dB
Filters	90kHz BP (60kHz to 120kHz) 150kHz BP (100kHz to 200kHz) 300kHz BP (200kHz to 400kHz) 600kHz BP (400kHz to 800kHz) 900kHz BP (600kHz to 1.2MHz)
Connectors	Output (and phantom fed power supply) SMC (Note 1)
Pulse Output	-5 volt for <1 microsecond (Note 2)
Size	Dia 35.25 (1.39) (Connector 10.2 (0.3)) (Note 1)
	Height 23.1 (0.91)

mm (Inch)

Notes

1. Connector assembly can be configured to client requirements. Waterproofing is possible using a rubber boot. A BNC style connector cannot be fitted, as this is too large to be accommodated. An integral coaxial cable may be used if required.
2. The pulse excites the integral sensor and can be used to test and calibrate an array of sensors. A pulse is initiated when power is applied to the preamplifier.

Pulsing can be repeated at any time during normal operation by removing and reapplying the supply. The maximum recommended pulse rate is five pulses per second.

There is a delay of between 60ms and 90ms after power is applied (or reapplied) to the preamplifier. This delay allows the monitoring instrumentation to ignore the initial power-on transient and settle before the pulse initiated. A full sensor array can then be tested or calibrated. Note that the pulsed sensor will be the first hit in the array.

Special Acoustic Emission Sensors

Many special sensor designs have been engineered for unique applications. If you have a requirement not covered by the standard range of sensors, please contact us at info@mcwade-monitoring.co.uk

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