

# MONITEK ULTRASONIC CONTROLLER SPECIFICATIONS

## PERFORMANCE

**Accuracy** +/- 4% F.S.      **Linearity** +/- 4% F.S.      **Sensitivity** +/- 2% F.S.

**Repeatability** +/- 4% F.S.      **Response time:** <1 second

## ENVIRONMENT

**Ambient temperature** - 0 °C to 45 °C (14 °F to 113 °F)

**Wallmount** **Fiberglass enclosure:** NEMA 4X, IP65

**Dimensions** 452 mm H x 406 mm W x 223 mm D (17.8" x 16.0" x 8.8")

**Weight** 10.5 kg (23.1 lbs.)

**Wallmount** **Stainless steel enclosure:** NEMA 4X, IP65

**Dimensions** 452 mm H x 406 mm W x 223 mm D (17.8" x 16.0" x 8.8")

**Weight** 9.7 kg (21.4 lbs.)

**Messenger PC** **Fiberglass enclosure:** NEMA 4X, IP65

**Dimensions** 350 mm H x 300 mm W x 173 mm D (13.8" x 11.8" x 6.8")

**Weight** 15 kg (33.0 lbs.)

## UTILITIES

**Power & consumption** 90-265 VAC, 50/60 Hz  
Maximum 65 VA

## COMMUNICATIONS

**Analog Outputs** 0/4 - 20mA (isolated, self-powered)

**Relays** 4 AC Triac. 90 – 260 VAC @ 1 Amp, programmable

## APPROVALS & CERTIFICATIONS

**CSA/NEC** – General Purpose: Monitek UltraSonic controller in stainless steel enclosure

**CSA/NEC** – Class 1, Div. 2: Monitek UltraSonic controller in stainless steel enclosure with Z-Purge

# MONITEK ULTRASONIC SENSORS SPECIFICATIONS

## PERFORMANCE

**Accuracy** +/- 4% F.S.      **Linearity** +/- 4% F.S.      **Sensitivity** +/- 2% F.S.

**Repeatability** +/- 4% F.S.      **Response time:** <1 second

## PHYSICAL SPECIFICATIONS

**Sensor Length** 604 mm (23.8") (standard)      **Probe Diameter** 22.2 mm (0.875")

**Probe Length** 269 mm (10.6") (standard)

**Weight** 2.2 kg (4.8 lbs.) application & sensor dependent

## DESIGN SPECIFICATIONS

**Sensor Types** Ultrasonic reflection (back scattered)

**Measurements** Oil in water (dispersed droplets), Total Suspended Solids

**Range** 0-10,000 ppm (1%) (application dependent)

**Detector** PEEK lens with piezoelectric crystal

**Probe Material** 316L SS / 1.4404 (as standard); Hastelloy C, others available

**Gasket Material** Kalrez o-ring for PEEK lens

**Process Connections** Mount via ball-valve assembly or flange

**Pipe diameter** 90 mm (3") minimum

**Process Pressure** Maximum 20 bar (290 psi) at ambient temperature

**Process Temperature** Maximum 80° (176°F)

**Cable Length** Maximum 100 m (330 ft)

**Cleaning Jets** optional

## APPROVALS & CERTIFICATIONS

**CSA/NEC:** General Purpose – UltraSonic Controller in stainless steel enclosure

**CSA/NEC:** Class 1, Div. 2 – UltraSonic Controller in stainless steel enclosure with Z-Purge