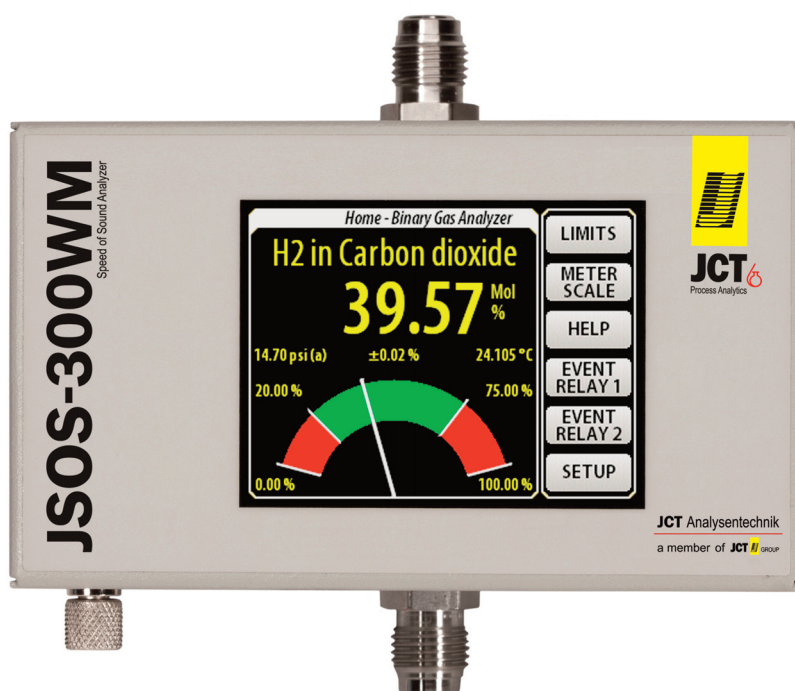




JSOS-300WM

Speed of Sound Binary Gas Analyzer



APPLICATIONS

- Air separation - product gas purity analysis, cal gas cylinder, welding and diving gas mixtures
- Pressure swing absorption - H₂ purity analysis
- N₂ generators - N₂ purity analysis
- Power gen - H₂ cooled turbine generator analysis
- Semicon specialty gas mixtures (i.e. B₂H₆ or GeH₄ in H₂)
- Electrolysis - H₂ / O₂ gas purity analysis
- Heat treating - H₂ / N₂ annealing furnace analysis
- Food & Beverage - CO₂ purity analysis

BENEFITS

- No moving parts or consumables to replace
- No need for field recalibration
- Ability to choose from over 500 gas parameters via the T/S user interface
- Capable of measuring under low or high flow conditions

FEATURES

- Large touch screen user interface
- 304SS sample flow cell capable of being heated to 70 °C
- VCR fitting option for Semicon or corrosive gas mixtures
- Downloadable software (N/C) allowing for enhanced user operation



TECHNICAL DATA

MODEL

**JSOS-300WM | JSOS-300WMF
JSOS-300WMV**

JSOS-300WMH

Description	speed of sound binary gas analyzer
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MEASUREMENT

Gas to be measured	over 500 different gases to choose from via T/S display (user selectable)
Measurement principle	speed of sound via resonant frequency detection
Measurement range(s)	0 – 100 %, user can change the range (i.e. 0 – 10 %) via T/S display
Measurement unit(s)	ppm or %
Display	touch screen display with intuitive mode buttons
Accuracy	+/- 0.01 to 0.1 % (appl/gas species dependent)
Electronic response time	T90 in 10 sec

OPERATION

Ambient temperature	–20° to 70 °C [–4° to 158 °F]
Speed of Sound range	100 to 1.500 m/s
Sample flow rate	up to 5 l/min
Sample gas pressure requirement	up to 10.34 bara max [up to 150 psia max]
Measurement rate	4.4 Hz

CONSTRUCTION

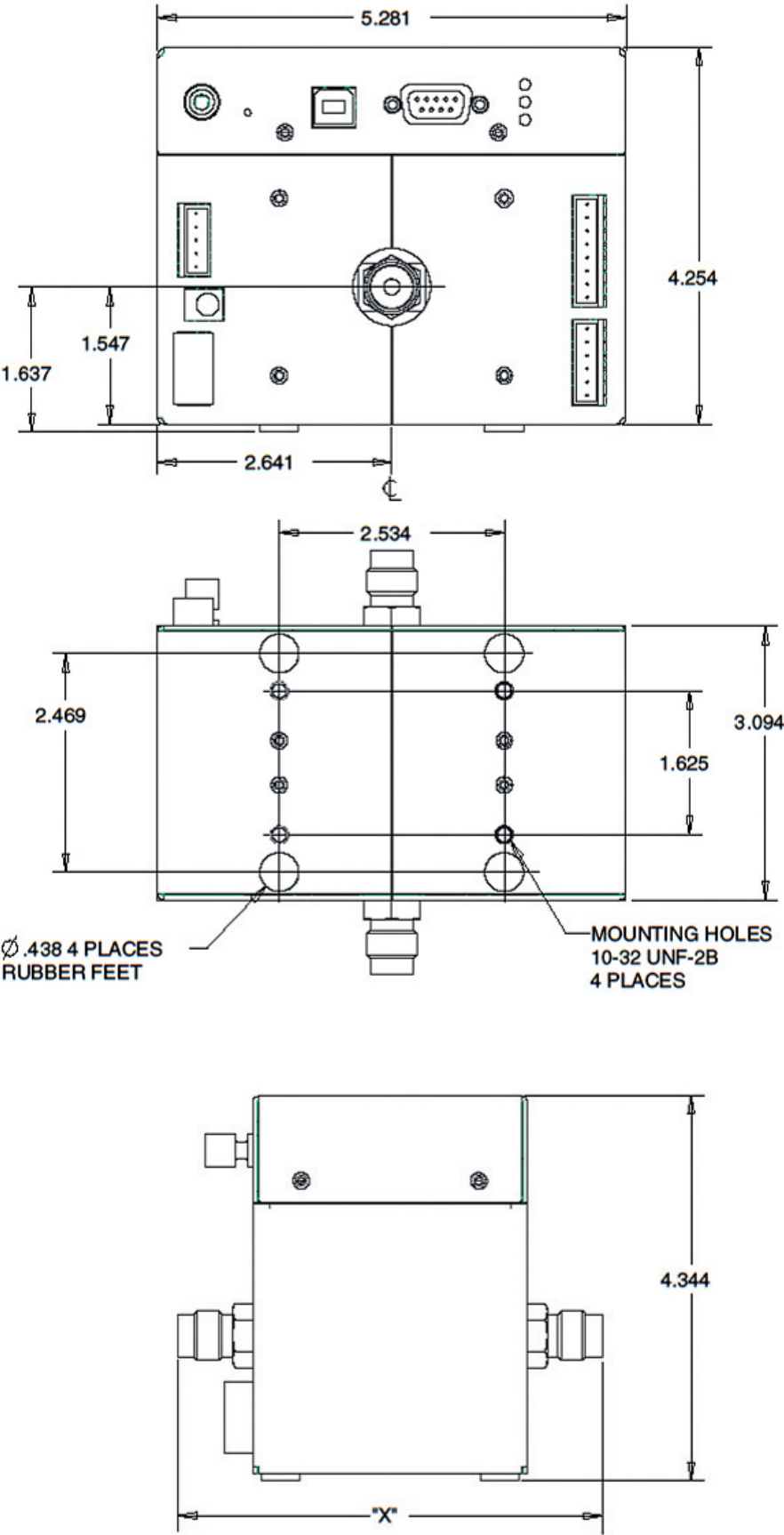
Dimensions (W x H x D)	139.7 x 114.3 x 82.55 mm [5.5 x 4.5 x 3.25 in]	254 x 279.4 x 139.7 mm [10 x 11 x 5.5 in]
Weight	3.18 kg [7 lbs]	4.62 kg [10.2 lbs]
Mounting	wall mounting	
Sample inlet connection	1/8" – 27 female NPT	
Sample outlet connection	1/8" – 27 female NPT	
Gas wetted material	electro polished 304 stainless steel, OFHC copper gaskets, nickel plated/immersion gold copper traces on 0.001" Kapton film, glass and nickel-plated Dumet wire, vented 316 stainless steel screws	
Protection class	IP60	IP65
Area classification	safe zone	
Approvals	CE	

ELECTRONICS

Power supply	24 VDC nominal (12 to 48 VDC; depending on heater power need), 0.1 to 2.5 A
Power consumption	typical: 500 mA / max: 1 A
Digital signal outputs	RS-232, RS-422 and USB (WHQL high speed USB 2.0)
Analog signal outputs	0 to 5 V, 0 to 10 V and 4 to 20 mADC (user selectable)
Analog signal inputs	0 to 5 V, 0 to 10 V and 4 to 20 mADC (user selectable)

DIMENSIONS

dimensions in inch



ORDER CODES

Part No.	Description
JSOS-300WM	Speed of Sound Binary Gas Analyzer (standard horizontal wall mount configuration)
JSOS-300WMV	Speed of Sound Binary Gas Analyzer (vertical mount configuration)
JSOS-300WMF	Speed of Sound Binary Gas Analyzer with VCR fitting
JSOS-300WMH	Speed of Sound Binary Gas Analyzer with NEMA4 wall mount housing



Vertical mount configuration



Wall mount housing configuration