

Sound Examiner Sound Level Meters

SE-400 Series

TSI[®] Quest[®] Sound Examiner Sound Level Meters SE-400 are engineered to accurately measure noise levels in highly variable environments, including those that require intrinsic safety.

These meters compute average sound pressure level (L_{FQ}/L_{AVG}) over the run time, helping you to more accurately assess occupational and environmental noise levels. All models are ready to use with no set-up required.

Features and Benefits

- Red models have Intrinsic Safety approvals
- Intuitive interface allows for out-of-box use with little to no training
- User selectable data logging intervals for download and analysis with TSI® Quest® Detection Management Software (sold separately)
- Averaging functionality allows for easy measurement in variable environments
- Choose from models with Class/Type 1 or Class/Type 2 microphones, dependent on your application
- SE-401 and SE-402-R models include removable preamp
- Meets applicable industry standards
- Useful tool as part of a Hearing Conservation Program; be confident that data collected is accurate





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Accurate and Intuitive Analysis Models For Many Applications



Choose the Model That Best Meets Your Needs

	Sound Examiner SE-401	Sound Examiner SE-402	Sound Examiner SE-402-R	Sound Examiner SE-401-IS	Sound Examiner SE-402-IS
Product No.	SE-401	SE-402	SE-402-R	SE-401 IS	SE-402 IS
DMS Compatible	•	•	•	•	•
Data Logging	•	•	•	•	•
External AC/DC Output	•	•	•		
Class/Type 2 Accuracy		•	•		•
Class/Type 1 Accuracy	•			•	
Remote Capability with Removable Preamp	•		•		
Intrinsic Safety Approval				•	•

Detection Management Software

Designed for dosimetry, sound level measurements, heat stress assessments and environmental monitoring, this advanced software helps safety and occupational professionals:

- Configure instrumentation and save pre-configured setups
- Retrieve, download, share, and save instrument data
- Create charts, tables, and reports to intuitively interpret your measurements
- Export and share recorded results



The software integrates with TSI® Quest® Detection Solutions data logging instruments and will help you improve both operating efficiency.

Specifications

Sound Examiner Sound Level Meters Model SE-400

Measurements

Wicdourements			
Parameters	SPL, L _{Max} , L _{Min} , L _{Pk} (peak), L _{EQ} /L _{AVG} , L _E , Elapsed Time	Battery	Lithi stan
Peak and Frequency			IS m
Weighting	A, C, Z		Run
Response Time	Fast and Slow		(excl stan
Ranges	110 dBA total dynamic		for Is
	measurement range. Overall range 30 – 140 dBA (single range)	Battery Life	3 ye (serv
Max Peak Level	143 dBA (sampled peak)	Battery Charge	USB
Exchange Rates	3, 4, 5 dBA		with
Status Indicators	Run, Stop, Battery Status, OL (overload), UR (under-range),	Internal Memory	Batt 2ME
	Run-Time, Locked Status	Communications	USB
Physical		Standard Microphones	Clas QE4
Size	11.2" (L) x 2.8" (W) x 1.3" (D) / 28.4 cm (L) x 7.1 cm (W) x 3.3 cm (D) (with preamp and microphone)	Preamplifier	Clas QE7 Prea
Weight	SE-401 model: 12.9 oz / 367.5 g (with preamp and microphone)		(13.2
	SE-402 model: 13.4 oz / 380.5 g (with preamp and microphone)	Remote Cable	Drive with
	SE-401-IS model: 14.5 oz / 410 g (with preamp and microphone)	Standards	(not
	SE-402-IS model: 14.5 oz / 410 g (with preamp and microphone)	Intrinsic Safety (SE-401 IS and SE-402 IS)	EN6
Housing	ABS Polycarbonate IP65. (Enclosure rated to IP65. Microphone and external connectors not IP rated.)		IEC EN6 5:20
Tripod Mount	Standard photographic mount on backside accepts ¼″ – 20 screw threads		IECE ATE in po
Drop Protection	Minimum 2 meters onto concrete, 2 times on each face. Acceptable	Ports and Connections	cert
Environmental	microphone damage.	AC/DC Output	3.5 r (tip -
Operating Temperature Humidity	14°F to 122°F (-10°C to 50°C) 0 to 90% RH, non-condensing		ring to IS
Storage Temperature	-4°F to 140°F (-20°C to 60°C)	I/O Connector	RS-2
Atmospheric Pressure	Operating: 80 to 110 kPa	1100	appl
·	Storage: 50 to 150 kPa	USB	Con mini
Response Time (t90)	< 40s @ 20°C ambient	Conformance to Standa	
		IEC 61672-1 (2002)	Elec

Specifications are subject to change without notice.

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Power / Electrical Characteristics

	Battery	Lithium Polymer: 2500 mAHr for standard models / 1500 mAHr for IS models, rechargeable Run-Time: 18 hours minimum (excluding the backlight) for
		standard models / 8 hours for IS models
	Battery Life	3 years or 500 cycles (service replaceable)
	Battery Charge	USB charger is provided with instrument. Battery charge time: 8 hours (approx.)
	Internal Memory	2MB (34 days at 1-minute logging)
	Communications	USB Interface
	Standard Microphones	Class/Type 1 Precision QE4936 microphone Class/Type 2 General QE7052 microphone
	Preamplifier	Preamp directly accepts ½" (13.2 mm) microphone
	Remote Cable	Drives up to 50 ft (15 m) of cable with negligible signal loss (not available on IS)
	Standards	
	Intrinsic Safety	
e	(SE-401 IS and SE-402 IS)	EN60079-11:2012 Part 11, IEC 60079-11 Ed. 6:2012 Part 11 EN60079-0:2013, IEC 60079-0 Ed.
1.)		5:2013 IECEx Certificate File #: 13.0006X ATEX Directive 2014/34/EU for use in potential explosive atmospheres certificate number: 1210031x
	Ports and Connections	
	AC/DC Output	3.5 mm stereo (tip – AC, center ring – DC, ring – Gnd); not applicable to IS models
	I/O Connector	RS-232 (I/O connector not applicable to IS models)
	USB	Conforms to USB 2.0, mini-USB connector
	Conformance to Standa	rds
	IEC 61672-1 (2002)	Electroacoustics, Sound Level Meters,
		Part 1: Specifications
	ANSI S1.43-1997 (R2007)	Part 1: Specifications 41 - 104° F (5 - 40° C)
	ANSI S1.43-1997 (R2007) ANSI S1.4-1983 (R2006)	
		41 - 104° F (5 - 40° C)
	ANSI S1.4-1983 (R2006)	41 - 104° F (5 - 40° C) Specifications for Sound Level Meters