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SOUND EXAMINER SOUND LEVEL METERS SE-400 SERIES

The TSI QuestTM 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_{EQ}/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
- + Printing capability with optional digital printer* provides hard copy documentation in the field
- + 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

* Not available on Intrinsically Safe models.





ACCURATE AND INTUITIVE ANALYSIS MODELS FOR MANY APPLICATIONS



Choice of Microphones

- + User can specify microphone type (Class/Type I or Class/Type II) based on application.
- + Select Type II for general duty; Type I accuracy for legal metrology.

Removable preamp*

+ Preamp can be easily removed to enable interference-free low-level monitoring, especially for remote use.

Aerodynamic shape

+ Minimizes disturbance to sound fields being measured, assuring accurate readings.

Onboard data logging

- + Allows user to capture maximum, minimum and peak values for thorough analysis.
- + Can be used with TSI Quest Detection Management Software DMS to manage compliance with hearing conservation programs.

Conformance to standards

- + Meets IEC 61672-1 (2002) and ANSI S1.43-1997 (R2007) standards and is CE certified.
- + Intrinsic Safety approvals on SE-401-IS and SE-402-IS.

SOUNDPATROL PORTABLE DIGITAL

PRINTING (OPTIONAL)*

- + Enables hard-copy documentation of measurement results in the field.
- + Facilitates noise ordinance enforcement and on-the-spot citation issuance.

* Does not apply to Intrinsically Safe models.

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	+	+	+		
Serial Printing for SoundPatrol Feature	+	+	+		
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 SE-400

SE-401 model: 12.9 oz / 367.5 g

(with preamp and microphone)

SE-402 model: 13.4 oz / 380.5 g (with preamp and microphone)

SE-401-IS model: 14.5 oz / 410 g

(with preamp and microphone)

SE-402-IS model: 14.5 oz / 410 g

(with preamp and microphone)

accepts 1/4" - 20 screw threads Minimum 2 meters onto concrete,

2 times on each face. Acceptable

(Enclosure rated to IP65. Microphone and external connectors not IP rated.)

Standard photographic mount on backside

ABS Polycarbonate IP65

microphone damage

Measurements

Parameters Peak and Frequency Weighting **Response Time** Ranges

Max Peak Level **Exchange Rates** Status Indicators

Physical

Size

Weight

Housing

Tripod Mount

Drop Protection

Environmental

Operating Temperature Humidity Storage Temperature Atmospheric Pressure

14 °F to 122 °F (-10 °C to 50 °C) 0 to 90% RH, non-condensing -4 °F to 140 °F (-20 °C to 60° C) Operating: 80 to 110 kPa Storage: 50 to 150 kPa

Specifications are subject to change without notic	~

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	Power / Electrical Characteristics		
SPL, L_{Max} , $L_{Min'}$, L_{Pk} (peak), L_{EQ} / L_{AVG} , L_{E} , Elapsed Time A, C, Z	Battery	Lithium Po standard m IS models, i	
Fast and Slow		Run-Time:	
110 dBA total dynamic measurement range. Overall range 30 - 140 dBA (single range)		the backlig for IS mode	
143 dBA (sampled peak) 3, 4, 5 dBA	Battery Life	3 years or 9	
	Battery Charge	USB charge Battery ch	
Run, Stop, Battery Status, OL (overload),	Internal Memory	,	
UR (under-range), Run-Time, Locked Status	Internal Memory	2MB (34 da	
	Communications	USB Interf	
	Standard Microphones	Class/Type	
11.2" (L) x 2.8" (W) x 1.3" (D) /		Class/Type	
28.4 cm (L) x 7.1 cm (W) x 3.3 cm (D) (with preamp and microphone)	Preamplifier	Preamp dir	

Remote Cable

Ports and Connections AC/DC Output

I/O Connector

USB

Conformance to Standards

IEC 61672-1 (2002)	Electroacoustics, Sound Level Meters, Part 1: Specifications
ANSI S1.43-1997 (R2007)	American National Standards: Specifications for Integrating Averaging Sound Level Meters
ANSI S1.4-1983 (R2006)	Specifications for Sound Level Meters
CE Mark	Self Certified
Intrinsic Safety Standards (SE-401 IS and SE-402	
ÌS models)	Contact factory for detailed information

to IS models)

Lithium Polymer: 2500 mAHr for standard models / 1500 mAHr for

Run-Time: 18 hours minimum (excluding

the backlight) for standard models / 8 hours

3 years or 500 cycles (service replaceable)

USB charger is provided with instrument.

Class/Type 1 Precision QE4936 microphone

Class/Type 2 General QE7052 microphone

Drives up to 50 ft (15 m) of cable with

negligible signal loss (not available on IS)

3.5 mm stereo (tip - AC, center ring - DC,

Conforms to USB 2.0, mini-USB connector

ring - Gnd); not applicable to IS models

RS-232 (I/O connector not applicable

Battery charge time: 8 hours (approx.)

2MB (34 days at 1-minute logging)

Preamp directly accepts ½"

(13.2 mm) microphone

IS models, rechargeable

for IS models

USB Interface



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P/N 5002173 Rev A (A4)

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Printed in U.S.A
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