



PQ125 SERIES

INTELLIGENT PIPELINE WATER LEAK DETECTOR

Smart Pipeline • Precision Detection
• Multi-Scenario Solutions

HIGHLIGHTS

MULTI-SENSOR CONFIGURATION:
DMR-V59, DMR-H40, RCS-L6, RCS-S3, TLS-H8

Wide applications: municipal, firefighting, industrial, residential pipelines

AI TECHNOLOGY: Smart waveform analysis • Noise filtering • High accuracy

ADVANTAGES



AI & INTELLIGENCE

- AI Assistance
- Time-Domain Waveform Visualization
- Multi-Feature Extraction



SENSORS & DETECTION

- Dual-Membrane Resonance
- Acoustic Resonance Technology
- Tracer Gas Tracking



USER EXPERIENCE

- Sound Chamber Feedback
- Human-Machine Interaction
- Multi-Scenario Adaptation

PARAMETERS

MODEL	PQ125A	PQ125B	PQ125C	PQ125D	PQ125E	FREQUENCY ACQUISITION/ADJUSTMENT RANGE	Indoor:600Hz-15kHz Outdoor: 20Hz-5kHz
SENSOR CONFIGURATION	DMR-V59 DMR-H40	RCS-S3	RCS-S3 DMR-V59 DMR-H40	RCS-S3 RCS-L6 DMR-V59 DMR-H40	TLS-H8 RCS-S3 RCS-L6 DMR-V59 DMR-H40	POWER CONSUMPTION	≈3W
DETECTION FUNCTION	Indoor	Outdoor	Indoor/Outdoor	Indoor/Outdoor	Gas/Indoor/Outdoor	WORKING TIME	≤8 Hours
MEASUREMENT DEPTH	0.5m	3m	3m	6m	8m	CHARGING TIME	6-8 Hours
DETECTION MODE	General Detection ,Location					CHARGER	5V2A USB charging
GAIN	Default 3 levels, 10 levels adjustable					BATTERY	3.7V 7000mAh
VOLUME	Default 5 levels, 10 levels adjustable					DISPLAY SCREEN	7-inch LCD screen resolution 1024*600
WORKING TEMPERATURE	-20°C~50°C					POSITIONING RANGE	Indoor: ±0.25m Outdoor: ±1m
CONNECT TO COMPUTER	Transmit data					PRODUCT SIZE	Host size: 221x149x43mm
						PRODUCT WEIGHT	Host 0.6kg

CONFIGURATION



Host Machine



DMR-H40

DMR-V59

PQ125A PARTS LIST



RCS-S3

Listening rod

PQ125B PARTS LIST



DMR-H40

DMR-V59

RCS-S3

Listening rod

PQ125C PARTS LIST



DMR-H40

DMR-V59

RCS-S3

RCS-L6

Listening rod

PQ125D PARTS LIST



DMR-H40

DMR-V59

RCS-S3

RCS-L6

Telescopic Rod

Listening rod

PQ125E PARTS LIST



Headphones

Charger

Data Cable

Strap

Control Handle

OTHER ACCESSORIES

ABOUT SENSORS

DUAL-MEMBRANE RESONANCE SENSORS (DMR-V59 and DMR-H40)

Equipped with dual-layer piezoelectric ceramic membranes that convert sound waves into precise mechanical vibrations for high sensitivity.

DMR-V59: Optimized for indoor ground detection; lightweight and portable.

DMR-H40: Suitable for detecting narrow indoor spaces such as gaps between objects and walls, providing higher contact accuracy.

ACOUSTIC RESONANCE SENSORS (RCS-L6 AND RCS-S3)

Detect leakage based on the resonance and acoustic chamber characteristics of underground sound waves.

RCS-S3: Designed for outdoor shallow and soft ground; suitable for pipelines ≤ 100 mm diameter with burial depth up to 3 m.

RCS-L6: Designed for outdoor deep and hard ground; suitable for pipelines > 100 mm diameter with burial depth up to 6 m.

TRACE LEAK DETECTION SENSOR (TLS-H8)

Uses tracer-gas diffusion technology to detect escaping gas concentration and accurately locate leakage points.

TLS-H8: Detection depth: up to 8 m.

HUNAN PUQI GEOLOGIC EXPLORATION EQUIPMENT INSTITUTE
HUNAN PUQI WATER ENVIRONMENT INSTITUTE CO.LTD.
HUNAN PUQI NEW ENERGY INSTITUTE CO.LTD

Website: www.pqwtcs.com Email: info@pqwtcs.com

Address: No.1 -4Puqi building, No.769 Qingzhuhu Road, Qingzhuhu Street, Kaifu District, Changsha, Hunan, China.



SMART DETECTION • PROFESSIONAL ASSURANCE • POWERED BY PQWT