



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

PILE DRIVING ANALYZER - HIGH STRAIN - RSM-PDT(D)

RSM-PDT(D)

High-Strain Pile Bearing Tester

PIT interface



PDA interface



Application:

- Standard Test Method for High Strain Dynamic Testing of Deep Foundations ASTM D4945-17
- Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations ASTM D5882-16

Features:

- Pile Driving Monitoring : With fast signal acquisition pace, the 60 hammers/min signal acquisition can be completed and the pile driving monitoring testing can be carried out in real time.
- Strain transducer installation monitoring, automatic balance adjustment of strain bridge : Real-time monitoring of strain sensor deformation status; Reduce the impacts of initial deformation of strain transducer on signal acquisition and eliminate the signal zero drift.
- Intuitive Result : Analysis results by Case method, F-ZV curves and upper and lower traveling wave curves are displayed in the field.
- Instantaneous floating point amplification technology : Compatible with the distortion less acquisition of strong and weak signals. The three-dimensional correction function for shallow defect is owned and the defect can be located accurately.
- Large Capacity Ultra-thin Battery : 9mm ultra-thin large-capacity battery, battery life ≥ 10 h and removable. Can be equipped with a backup battery.
- Industrial-grade : Newly upgraded industrial-grade capacitive touch screen, smooth and precise operation, adapt to strong light environment.

Standard supply

1. High strain pile bearing tester - RSM-PDT (D)
2. High strain test cable : 20 meter
3. Strain transducer - 3 pcs - 3M
4. Piezoelectric accelerometer - 2 Pcs-5M
5. Cable bag
6. Power Adaptor - 8.4V - 5A - 2 Pcs
7. Tool kit : U disk, tape measure, wrench
8. Expansion Bolt
9. Instrument Container

Optional for PDA

- Superdog and RSM-CAPWAP software

Optional for PIT

- Accelerometer with Cable 5 m
- Hammer

Note:**EIE Instruments Pvt Ltd in Partnership with Wuhan Sinorock Technology Co. Ltd**

- EIE Instruments Pvt Ltd, a leader in civil engineering testing instruments, has partnered with Wuhan Sinorock Technology Co. Ltd, a global expert in foundation pile testing.
- This collaboration brings advanced solutions for Pile Integrity Testing, Dynamic Analysis, Cross-Hole Sonic Logging, Static Load Testing, and Drilling Monitoring, combining EIE's trusted manufacturing and service with Sinorock's innovative technology.
- The partnership provides Indian infrastructure and geotechnical industries with reliable, efficient, and standards-compliant pile testing solutions, supporting engineers and contractors with accurate, safe, and streamlined foundation assessment.

EIE INSTRUMENTS PVT. LTD. | SINOROCK
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Foundation Pile Inspection Industry Pioneer, Continuous Lead

RSM-PDT(D) HIGH-STRAIN PILE BEARING TESTER

- High strain bearing capacity detection of pile
- Low strain pile integrity detection by reflected wave method (optional)

PIT Testing **PDA Testing**

One Device, Two Uses. (PDA&PIT)

- Instantaneous floating-point amplification
- Ultrathin high-capacity battery
- Industrial capacitive screen
- Realtime piling monitoring
- Realtime uploading
- Sensor deformation monitoring

8.4-inch Industrial grade capacitive touch screen	750 nits Maximum screen brightness	16G Electronic hard disk	2.0 kg Host weight
10h Long standby	-20~+55°C Fearless of the extreme environment	IP65 Dustproof and waterproof	Customization Support customized R&D

SINOROCK • MAKES TESTING AND MONITORING EASIER

Technical Specification

- Number of channels : PDA: four channels
: PIT: one channel
- Sensor : Piezoelectric accelerometer, Strain transducer
- Sampling interval : PDA:50 ~ 500 μ s adjustable in stages
: PIT:5 ~ 1000 μ s continuously adjustable
- Sampling Mode : 2 accelerometers + 2 strain transducers
- Signal acquisition method : Wired
- Frequency bandwidth : Speed channel: 2 ~ 12000Hz

- Dimensions

•Weight
- : Strain channel: 0 ~ 12000Hz

: 265×200×56 mm

: 2.0 kg (including lithium battery)

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