



Pile Dynamics, Inc.  
www.pile.com • 1.216.831.6131

## Technical Specifications

# Shaft Quantitative Inspection Device\* (SQUID66™)

## SQUID66 Data Collector

### Size (height x largest diagonal):

- 629 x 647 mm (24.75 x 25.5 in)

### Weight (including penetrometers and contact plates):

- 188 kg (415 lbs.)

### Material:

- Stainless Steel and Aluminum

### Standard Kelly Bar Connection Sizes\*

- 101.6 mm (4 in), 152.4 mm (6 in), 203.2 mm (8 in)

\*PDI can offer design assistance or consultation for proprietary systems

### Cable Length:

- Standard 61 m (200 ft) standard; Optional Cable Length 152m (500 ft)

### Temperature Range:

- Operating -20° to 55° C (-4° to 131° F); Standard -40° to 85° C (-40° to 185° F)

### Applied Force Limit:

- 135 kN (30 kips)

## SQUID Penetrometers

### Material:

- Stainless Steel

### Number of Penetrometers:

- 3-standard



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### Penetrometer Tip:

- Area 10 cm<sup>2</sup> (1.55 in<sup>2</sup>) standard, larger tips optional; replaceable

### Maximum Penetrometer Pressure:

- 100 MPa (14 ksi/2000 ksf)

### Penetrometer Pressure Measurement Resolution:

- MPa/1N (1 psi/0.01 ksf)

### Maximum Depth of Penetration:

- 150 mm (6 in)

## SQUID Contact Plates

### Size:

- OD 152 mm (6 in); ID 46 mm (1.8 inch); thickness 25.4 mm (1 in)

### Weight per Contact Plate Assembly:

- In air 6.75 kg (14.9 lbs.); in water: 5.85 kg (12.9 lbs.)

### Contact Plate Pressure (free to move):

- In air 4 kPa (0.58 psi/0.083 ksf); in water 3.5 kPa (0.50 psi/0.072 ksf)

### Contact Plate Displacement Measurement Resolution:

- 0.005 mm (0.0002 in)

### Maximum Contact Plate Movement:

- 150 mm (6 in)

## Wireless Transmitter

### Transmission Range:

- 100 m

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## Frequency:

- 2.4 GHz

## Output Power:

- 18 dBm

## Mounting:

- On cable reel

## Temperature Range:

- Operating -10° to 55°C (14° to 131° F); Storage -20° to 70°C (-4° to 158° F)

## SQUID Main Unit

### Size:

- 320 x 250 x 68 mm (12.6 x 9.8 x 2.7 in)

### Weight:

- 5 Kg (11 lbs.)

### Temperature Range:

- Operating 0° to 40°C (0° to 104° F); Storage -20° to 65°C (-4° to 149° F)

### Display:

- 26.4cm (10.4 in), sunlight readable, resolution 1024 x 768; capacitive touch screen

### Video Outputs:

- HDMI, VGA

### Battery Power:

- 4-hour continuous data collection 12 V battery + back-up battery standard

### Charging Time:

- 4.5-hour maximum; 120/240 charger input voltage



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### **Operating System:**

- Microsoft Windows® 10

### **Other**

### **Data Storage and Ports:**

- A minimum of 128 GB SSD internal drive; Ethernet port; 4 USB ports

### **Optional External Accessories:**

- USB keyboard and mouse

### **Remote Operation:**

- SQUID Main Unit is equipped for high-speed internet access and remote operation

### **Technical Support:**

- SQUID Main Unit is equipped for remote error checking and updating

### **Units of Operation:**

- Traditional US or SI
- Full one-year warranty on parts and labor
- Technical manual provided in PDF form on a USB drive

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