

GENERAL SPECIFICATIONS

Weight (including battery) 4 kg

Dimensions (width, height, depth) 172 x 200 x 342 mm

Operating temperature -10 .. +40 °C IP Classification IP65

Optics

Transmitters 4 pcs IR-LED

Measuring FOV (Field-of-view) 50 mrad (vertical, 50 cm / 10 m)
Pointers 2 pcs Class 2 visible laser, 635nm

Reflector(s)

6 to 10 m (optimum)

3M Diamond Grade tape

Extended range <6m, >10m

Tape reduced or increased in width accordingly

Sampling rate 100 .. 4000 Hz

Accelerometer, tilt & rotate

Static measuring range + - 50 °

Supply power

Battery (removable)

Ultralife UBBL25,
Li-ion 10.8V, 4.8Ah

Charger

Mascot 2240Ll/3CELL

Power Connector

Amphenol (IP67), 11-14 V DC IN

Data interfaces

Trigger interface

WLAN Lantronix xPico Wi-Fi

USB LTW, B-type female connector

(IP68)

Active LOW, 0 .. max 5V

-USB Cable included 5m

Current consumption (12 V, typ.)

Idle mode85 mA typ.Measuring (4000Hz / WLAN175 mA typ.Measuring (4000Hz / USB)150mA typ.-With pointers on+30 mA typ.

WARNINGS AND CLASSIFICATIONS

CLASS 1 LED-DEVICE

Classification IEC 60825-1:2007

CLASS 2 LASER-DEVICE

Classification IEC 60825-1:2007

Class 2: "visible-light lasers (400-700 nm) limited to

max 1 mW continuous wave"

WARNING — using the device in any other way that is described can expose the user to dangerous invisible optical radiation.

OPERATIONAL CHARACTERISTICS

Offset Distance Range 6m to 20m maximum from pile

Recommended range 6m to 10m from pile

Recommended Max Rotational Deviations

From horizontal plane 1V:10H
From vertical plane 1H:10V

Recommended accuracy in Offset

10mm or better

Notional Displacement Accuracy ±0.1mm within

recommended range

Notional Velocity Accuracy ±0.1m/s within recommended

range and at 1kHz conditioning

frequency

Recommended Mounting Solid placement on sand bag on

ground or on survey tripod

Sampling rate for pile monitoring 4000Hz +/-0.2%

SECURITY FEATURES

SOFTWARE

Code protection Code is encrypted, and runs on a

virtual CPU, which makes it a black-box to data hackers.

Console binding Each copy of software is coded

to bind to its tablet console.

Illegal copy software will not work

in other environments.

Digital OutputAll data files are protected by

encryption. FSG offers

consultation and further analysis.

Client logo Hardwired into every report

HARDWARE

Secure connection Standard WPA2,

password protected

Anti-Amendment Report Key values of the site report (input

identification and outputnresults) are encrypted into a QR code. Through current validation utility authorities can tell whether or not a report is modified. The utility will later be available as a phone app.

