BluLink Module

In many mines, running electric lead wires for geotechnical instruments is a problem. Running and protecting lead wires is very time consuming and expensive. Damaged is frequent, data is received intermittently, repairs are difficult and expensive.

YieldPoint's BluLink line is a suite of BlueTooth 5.0 enabled devices for low-power data transmission and data logging.

The battery operated BluLink device connects to any YieldPoint instrument and turns it instantly into a geotechnical BlueTooth instrument. It can be installed fully recessed in a stub borehole right beside the instrument borehole. This allows for a very protected setup with virtually no exposed lead wires.

The BluLink device contains its own set of 4 or 8 D-cell batteries. The cylindrical stainless steel body allows for installation into a 2"/50mm stub borehole. The unit is protected and invisible. It can also use a polycarbonate enclosure with mounting tabs.

The BluLink logger is a small polycarbonate enclosure with mounting tabs and contains it own set of D-cell batteries. It is placed somewhere in the excavation where it will be within range (40m to 50m) of the largest possible number of instruments.

▲ *YieldPoint BluLink device.*
  - *Range: 50 meters (160ft)*
  - *4 x AA batteries*
  - *polls instrument and sends geotechnical data to any Android BlueTooth device*
  - *2 form factors: small square enclosure with mounting tabs or small stainless steel cylinder to installs in any 2" (50mm) diameter stub borehole*

▲ *BluLink logger*
  - *4 x C-cell batteries automatically meshes with existing BluLink devices*
  - *records readings from all instruments within range*
  - *data download via YieldPoint app on Android phone or tablet*
  - *logger can be networked for real time data download to Geotechnical Data Platform*

▲ *geotechnical data to any Android BlueTooth device*

▲ *Can be indefinitely re-used with various YP instruments*

▲ *No manual configuration upon installation*

▲ *1"/25mm antenna*

▲ *Easy to install and maintain*

▲ *Delivered fully assembled.*

Applications	Product Specifications

Applications

- ▲ Geotechnical monitoring

- ▲ When zero profile from wall is needed

- ▲ Works with old and new YieldPoint digital instruments: extensometers, crackmeters, instrumented cables and bolts, tiltmeters, sloughmeters, thermistor strings, piezometers

- ▲ Monitoring in permanent infrastructure

- ▲ Monitoring in development areas

- ▲ Monitoring in shafts

- ▲ Eliminates all need for lead wires from or to instruments and loggers

BlueTooth Data Logger

Product Specifications

- ▲ Communications: BlueTooth 4.2 to 5.0

- ▲ Installation in 2"/50mm stub borehole Or on any rock, lumber or metal surface

- ▲ Power: 4 x AA for BluLink device

- ▲ 4 D-cell batteries for BluLink logger

- ▲ Replaceable batteries option available

- ▲ 45mm diameter, 200mm length

- ▲ Weight: 0.5bs- 250gr

- ▲ Completely wireless

- ▲ Connects to any existing YieldPoint instrument

- ▲ Target Battery Life: 1 reading per hour for 1 year

151071011 ⓘ

Instrument Type: dExto
Location: YieldPoint
Level: 5
Borehole: qed
Zero Timestamp: No Zero timestamp set.

Timestamp: 24-01-2019 12:11:42   SET t_{ref}

⏮ Oldest	◀ t_{-1}	▶ t_{+1}	⏭ Newest

READING DATA

Anc - Pos (m)	Raw Data ⦿ mm ◯ in	Delta t_{ref} HAC
#01 - 1	10.50	0.00
#02 - 2	11.00	0.00
#03 - 3	12.50	0.00
#04 - 4	13.50	0.00
#05 - 5	14.50	0.00
#06 - 6	15.50	0.00

💾   Saved Readings: 1   MORE INFO

Bluetooth	Instruments	Readings	Settings

SETTINGS

Save Interval	60 Seconds
Select Instrument on Connect	🔴

EXPORT

Date Format	MM/DD/YY
Delimiter	Comma

SAVE FILES   MARK READINGS SAVED

GDP IP	192.168.1.50

UPLOAD TO GDP

PULL FROM GDP

Bluetooth	Instruments	Readings	Settings

Instruments

151071011

+	‹	›	🗑
Add New	Prev	Next	Remove

INSTRUMENT DETAILS

Instrument ID	151071011
Instrument Type	dExto
HAC/HAT: Head at	collar
Anchor #0 (Head)	0
Anchor #1 Pos	1
Anchor #2 Pos	2
Anchor #3 Pos	3
Anchor #4 Pos	4
Anchor #5 Pos	5
Anchor #6 Pos	6

INSTALLATION DETAILS

Project	Testing
Location	YieldPoint
Level	5
Borehole	qed
X Coordinate	1
Y Coordinate	2
Z Coordinate	3
Zero Timestamp	
Install date	
Installed by	Peter
Purpose	
Notes	

Bluetooth	Instruments	Readings	Settings