

# dPPC: PasteFill Pressure Cell

## Purpose



*Workers safety is improved when they can be quickly removed from risk areas. Productivity and profitability are increased through more efficient backfilling made possible with real time remote access to barricade pressure data.*

YieldPoint offers an innovative **Paste Pressure Cell (PPC)** for monitoring backfill Total Pressure over a range of 600kPa (0.01kPa resolution).

The TCP is molded in a silicone rubber, so that the combined stiffness more closely replicates that of an early stage paste fill material. The instrument can be oriented to measure lateral or vertical pressures. The anodized aluminum backplate can be secured to a barricade or combined in biaxial or triaxial arrays.

## Features

The RS485 output signal can be routed through the fill or structure over long distances if necessary (up to 800m). The dPPC is compatible with all YieldPoint BluTech products.

- ▲ Low cost and durable.
- ▲ Easy to install. Delivered fully assembled.
- ▲ 5-pin Connector.

### Pressure Sensor:

- ▲ 24bit digital Pressure Transducer
- ▲ 0-600kPa absolute range. Other ranges available.
- ▲ On board Signal Processing.
- ▲ 0.01kPa Resolution (about 1mm).
- ▲ +/-0.1%FS Accuracy.
- ▲ Individually calibrated

### Temperature Sensor

- ▲ On board Temperature Sensor.
- ▲ -35C to +85 C Temperature Range.
- ▲ 0.1C Temp Resolution.

### Data Management

- ▲ Operable with BluTech for data storage and telemetry.
- ▲ ASCII encoded output string with Unique ID.
- ▲ Operates with Bluetooth 5 data-loggers with sealed or replaceable batteries.
- ▲ Operates with BluGWs and other wireless telemetry solutions from YieldPoint.

### Dimensions

- ▲ 200x140x20mm and weighs 500g.
- ▲ Custom length lead wire.
- ▲ 5-pin YieldPoint Connector.

# d-PPC: Pastefill Management.

## Applications

- ▲ Paste fill barricade
- ▲ UCF sill mat pressures.
- ▲ Development in fill
- ▲ Tailings dam construction
- ▲ Retaining walls
- ▲ Piles



## Datalogging/Telemetry

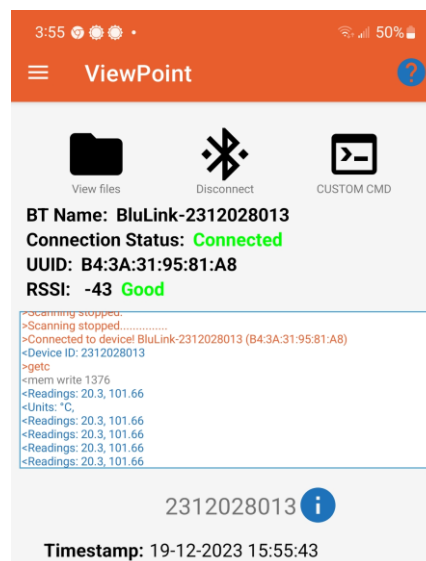
The **BluLink** works with all YieldPoint instruments. BT5 Beacons readings every 3s (programmable) with a range up to 100m LoS.

Stores 30,000 date & time stamped data strings at user intervals. Download with Android phone or tablet running BluPoint App

IP67 enclosure, external BLE5 antenna included, replaceable lithium D-cell batteries good for 3 years. Batteries not included.

Data sent to the Cloud via **BluGateway** LTE-M or WiFi/Ethernet.

Also in a sealed batteries format.



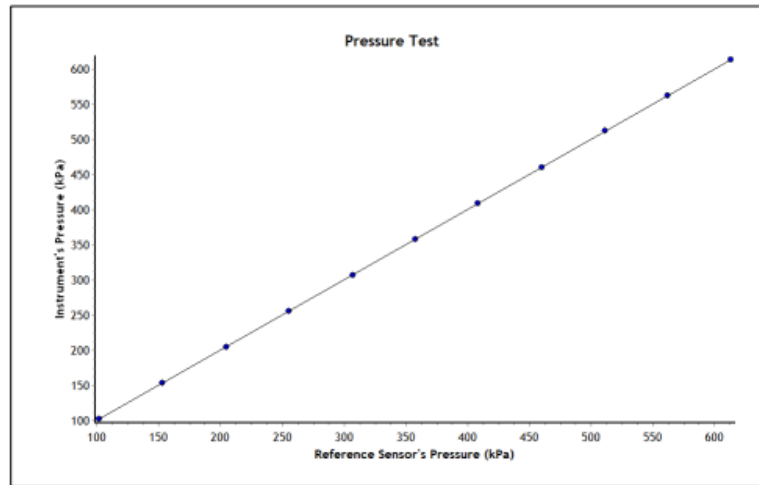
# d-PPC: Calibration Sheet



## PRESSURE CALIBRATION SHEET

<b>Model</b>	dPPC	<b>Cal Date</b>	11/8/2023	<b>Reference Serial</b>	9999
<b>Serial</b>	2310028027	<b>Cal By</b>	JR	<b>Readout Number</b>	8123
		<b>Job #</b>	6273	<b>R/O Cal Date</b>	1/1/2021

Reference Pressure (kPa)	Instrument's Pressure (kPa)	Difference (% FS)
101.66	101.97	0.06
152.85	152.96	0.02
204.49	204.66	0.03
255.33	255.36	0.01
306.91	306.90	0.00
357.84	357.77	0.01
408.56	408.61	0.01
460.22	460.23	0.00
511.65	511.58	0.01
562.09	562.07	0.00
613.32	612.98	0.07
Slope	0.9992	
Offset	0.2964	



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