

# dExto-Civil

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**dExto-Civil** is a fully integrated and pre-assembled multipoint extensometer (MPBX) for installation in non hard rock ground, usually in civil applications.

It uses variable inductive displacement sensors, a stiff, strong and durable body sheath and stainless steel rods maintained perfectly straight for low friction and optimized accuracy.

An on-board temperature sensor provides near total compensation and hermetically sealed electronics operate indefinitely when submerged in water.



Delivered fully integrated, the extensometer comes coiled on a 120cm diameter, fully ready for installation and grouting. No calibration is required and manual tightness adjustment of the anchors is possible.



The high-profile anchor allows an excellent transfer of force from the surrounding ground through a bentonite cement grout. A 75mm borehole is adequate.

| Date                | 0    | 0.8   | 1.6   | 2.4   | 3.2   | 4.2   | 5.2   | Temperature |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------------|
| 2020-01-16 13:12:03 | 0.00 | 17.18 | 19.35 | 17.73 | 17.56 | 17.15 | 16.75 | 15          |
| 2020-01-17 10:09:04 | 0.00 | 17.24 | 19.37 | 17.77 | 17.62 | 17.20 | 16.80 | 15          |

## Sensors Specifications

*Up to 6 anchor points, up to 60m long.*

*125mm to 250mm stroke.*

*Resolution: 0.01mm with 125mm range, 0.02mm with 250mm range.*

*Microcontroller for output in millimeters.*

*Temperature compensated variable inductance displacement sensors.*

*Linearity: 0.3% FS minimum, <0.2% FS*

*Temp. range: -40 to 125C*

*Thermal Variability: 0.02% FS*

*Unique instrument digital ID tag for easy data tracking.*

*Calibration Coefficients stored in Flash memory.*

*On-board digital temperature sensor for accurate compensation.*

*Delivered assembled.*

*Can be networked to the Cloud using BluLink LE5 modules and a 4G Gateway.*



The longest instruments are easily carried to site. 58m specimens 58m were successfully installed in the ocean floor in Hong Kong.

Several hundreds of dExto-Civil are used by Metro Los Angeles to monitor settlement over transit tunnels.



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