WIRELESS

Flex Embeddable Logger

The second generation in our Embeddable Logger line, Flex Embeddable Loggers are a quick to install and fully wireless temperature monitoring solution. This sacrificial sensor can be installed in formwork (generally on rebar) and covered in concrete. No wires are left exposed which means no risk of lost temperature data. Data transmission is more robust than ever, using both long range radio to an EXACT Relay and daily cellular connections as a backup to ensure your data consistently shows up on the EXACT Portal.

SKU: EX-EL-1

Features

- Up to 2 temperature probes
  - New 4-pin connector to improve robustness to moisture and physical damage
- 24/7 real-time online monitoring via EXACT Wireless Relay
- Additional daily secondary data upload via cellular for increased data reliability
- Always recording temperatures, data can be recovered wirelessly in real-time, or at a later date
- 60 day battery life (active monitoring) / 30 days battery shelf life

Applications

- Maturity + strength estimation
- Mass concrete thermal monitoring
- Cast-in-place concrete
- Precast mass concrete thermal monitoring

Technical Specifications

# of Inputs	Temperature: 2 external + 1 ambient RH: 1 external
Operating Range	-20 °C to 60 °C (-4 °F to 140 °F)
Measurement range	-30 °C to 120 °C (-22 °F to 248 °F)
Battery type	Single use (non-rechargeable)
Battery life	2 months runtime at 15 min reporting interval. 1 month shelf time before runtime is reduced
Accuracy/Resolution	±0.2 °C (±0.4 °F) / 0.1 °C (0.2 °F)
Interval	**Default:** Transmits every 15 minutes over LoRa and once daily over LTE **Optional:** LoRa interval of 5 minutes or 60 minutes
Memory	90 days @ 15 min intervals
Cellular technology	**LoRa:** 915 MHz (CA/USA/AUS) / 868 MHz (EU) **LTE Cat M1, NAmer:** Bands 2,4,12. **Europe:** Bands 3,8,20. **Australia:** Bands 28.
Country compatibility	See appendix
Ingress protection	Dust/Steam/Waterproof
Dimensions	111 mm x 52 mm x 44 mm (4.4 in x 2.0 in x 1.7 in)
Weight	200 g (0.4 lbs)
Installation Depth	Up to 76.2 mm (3 in) below surface of concrete. Radio range is installation dependant.