< Abstract >

i-SENSOR2 (intelligent-SENSOR2) Tilt is consisted of a tilt sensor, a data logger, a transmission module and a wireless-link. Monitoring data is aggregated from sub [Tilt-node] to main [Tilt] and the aggregated data is transferred to customers using GSM/GPRS.

Splash-proof housing and lithium batteries / C cell batteries are adopted and a storage box is not necessary. Installation work becomes easier and it leads to saving cost by reducing work load and time.

This has a warning alert function and a self-judgment function and it is available to prepare /develop an early warning system for preventing natural disasters.

< Features >

- 2 axes (X axis, Y axis) of tilt sensor are contained.
- It is available high-resolution monitoring (resolution: 0.001°).
- 1 main [Tilt] can be connected up to 10 subs [Tilt-node].
- Wireless-link is correctly synchronized time and sent/received data with requisite minimum time leads to low power consumption.
- Mesh type wireless-link which is a redundant pathway function is adopted to avoid missing data.
- Measurement and data transmission interval are automatically changeable by setting threshold on the self-judgment functions.
### Specification

#### Tilt Sensor
- **Measurement direction**: 2 axes (X axis, Y axis)
- **Measurement range**: +/-10°
- **Display resolution**: 0.001°
- **Accuracy**: +/- 0.5% FS
  (+/- 0.05° at 25°C)

#### Communication (mobile phone communication) [Tilt]
- **Packet Communication**: GSM/GPRS
- **Time & position**: GPS

#### Wireless-link [Tilt], [Tilt-node]
- **Wireless-link**: 2.4 GHz, Smart Mesh IP
- **Connectable number of wireless-link**: Up to 10 units
- **Distance of link**: max. 150 m
  (Line-of-sight distance in case of 2 m height of antenna)

#### Interface
- **USB**: USB2.0 × 1 port
  (For conversion port between USB and RS232C)
- **Memory card**: SD-card, SDHC-card
- **Communication card**: SIM-card (GSM/GPRS)

#### Data Logger
- **Data storage capacity**: approx. 28,000 data

#### Housing
- **Protection grade**: Splash-proof

#### Outer Dimension
- **Outer size [Tilt]**: φ85 × 220 mm
  (Excluding projections)
- **Outer size [Tilt-node]**: φ85 × 125 mm
  (Excluding projections)
- **Weight [Tilt]**: approx. 2 kg
  (Excluding internal battery)
- **Weight [Tilt-node]**: approx. 1 kg
  (Excluding internal battery)

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**Image of Configuration**: communication & wireless-link path

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Color, design and specifications are subject to change without notice

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