

LOGSTOR District Energy

Detector X6

Secure long lifetime of the pipe system



Detector X6 - for localization of fault in pipe networks

LOGSTOR introduces advanced technology in surveillance of pre-insulated pipe systems, making a more precise fault location possible. This minimizes costs of repairing damages, if any.



Detector X6 has the following features and customer values:

- Total Cost of Investment (TCI) will be reduced. X6 is delivered as standard with one module for Nordic or 3dc. It can then be upgraded up to 4 modules serving as separate detector inside one X6 cabinet.
The value for the customer is that less X6 detectors are needed in the network compared with older detectors with build in TDR.
- More reflections and improved performance with build in TDR. This will give sharper analysis of eventual failures and precise location of faults.

- Easy communication and configuration
X6 has built in WIFI which is used for direct communication to the PC for setting and configuration of the X6 It is also possible with connection via LAN cable type RJ-45.
- Possibility of measuring temperature and pressure
It is possible to connect sensor modules for measurements of temperature and pressure in the network (I/O module)
Possibility to connect to SRO/SCADA systems.
- Complete delivery including cabinet – high focus on quality
Detector X6 is always delivered in a cabinet with one module for either Nordic or 3dc system. Including antenna, modem and transformer.

Detector X6 properties and specifications

2 (4) channels	<p>District Heating systems connected in loop: 2 exits/channels, each with a range of 3000 m pipe, corresponding to 6000 m alarm wire.</p> <p>Systems connected <i>without</i> loop: 4 exits/channels, each with a range of 6000 m pipe, corresponding to 6000 m alarm wire.</p>
Modules	<p>X6 is as standard delivered with one module for Nordic that has 4 exits/channels each with a range of 6000 m wire.</p> <p>With 3 extra modules the range will be 16 x 6000 m wire.</p> <p>X6 can as standard be delivered with one module for 3dc that has 2 exits/channels each with a range of 3000 m 3dc cable (For District cooling or plastic media pipes).</p> <p>With 3 extra modules the range will be 8 x 3000 m 3dc cable.</p> <p>Detector X6 can surveil both a network with Nordic wires and a network with 3dc cables at the same time – depending on the choice of modules according to above.</p> <p>It is also possible to select a I/O module for disconnection to PLC.</p>
Communication	<p>The detector is equipped with a 4G modem as well as an antenna, enabling communication via LOGSTOR Hasting to XTool. Connection with fibre optic cables possible.</p>
Setting alarm level	<p>Via XTool alarm levels for insulation values, galvanic voltage, impedance, and broken wire can be set.</p>
Wire resistance	<p>Wire resistance is measured at intervals of 0-200 Ω. Broken wire when measuring > 200 Ω.</p>
Galvanic voltage Insulation resistance	<p>Indication of moist/water in the PUR insulation. Insulation resistance is measured at intervals of 1 kΩ - 50 MΩ</p>
Measuring accuracy	<p>Impedance measuring: Theoretically, ± 1 m wire, provided the signal velocity has been correctly set, and coaxial cable is used.</p>

X6 - impedance measuring

Detector X6 is delivered installed in a detector cabinet



Module for Nordic System



Module for 3dc cable



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