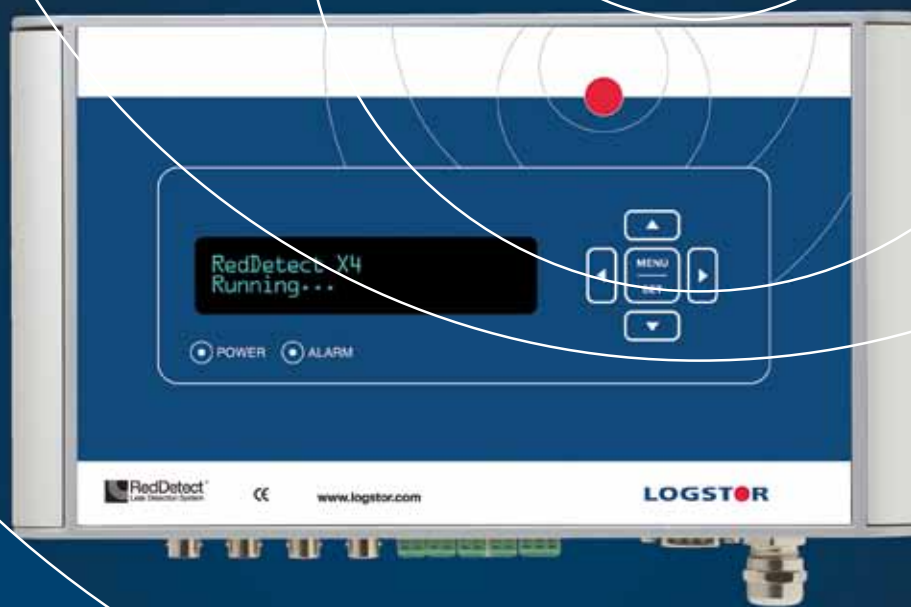


# LOGSTOR *Detect*



## RedDetect™ X4 – for the surveillance of district heating pipe systems

The X4 surveillance unit is connected to the two un-insulated copper wires in the pipe network. It measures impedance and resistance to register moisture that may have penetrated the district heating pipe network from the surrounding soil or leaked out from the service pipe.

The X4 monitors impedance via a built-in TDR impulse reflectometer which – when the system is commissioned – generates an initial curve as reference for subsequent

comparison and troubleshooting. Any change outside the threshold values triggers an alarm, which makes it possible to locate faults at an early stage.

The X4 can also register any breaks in the alarm wires or short-circuits in the system.






When the unit is used with XTool surveillance software, all the messages about the condition of the pipe network transmitted by the X4 can be collated in a graphic display and analysed by a centrally located computer.

Can only be used for systems with coaxial cables.

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# LOGSTOR *Detect*

RedDetect™ X4 - Technical data	
Weight	2 kg
Dimensions	L x W x H: 260 x 150 x 90 mm
Range	4 x 5,000 m wires, 4 channels (2 loops or open)
Measurement range – Insulation	1 Kohm – 50 Mohm
Alarm transmitter	Optical and acoustic – and, with XTool software, relay output
Communication protocol	TCP/IP
Accuracy	< 1 metre, Impulse: TDR 1–5 ns
Signal	Network, GPRS, fibre
Encapsulation	Aluminium IP 54 (with component cabinet, IP 66)
Range of application	-20°C – +80°C
Power supply	Built-in transformer, 110/230 V AC 12 V DC
Power consumption	15W
Placement	Condensation free - indoors or in a terrain cabinet
CE approved	

Accessories			
GPRS modem		Cabinet	
Transient protection		XTool, graphic software	
Antenna			

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