

DISTRICT HEATING:

GRUNDFOS iGRID MEASURE POINTS

GRUNDFOS iSOLUTIONS



PUMP

CLOUD

SERVICES



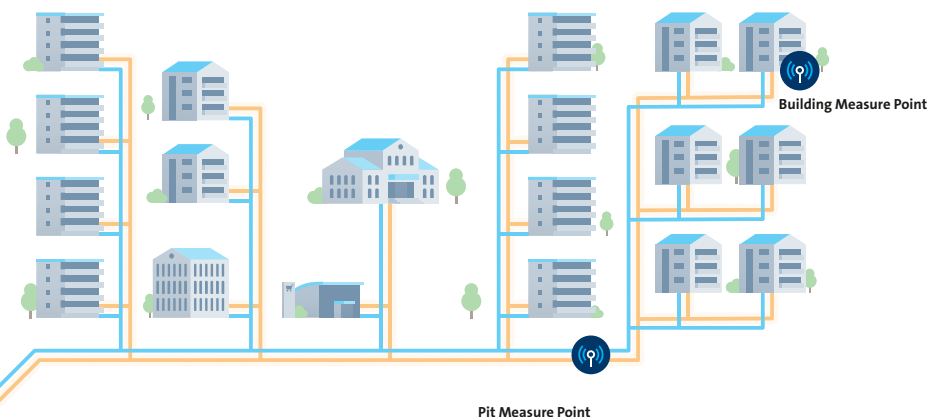
be
think
innovate

GRUNDFOS 

GRUNDFOS iGRID MEASURE POINTS FOR REAL-TIME CONTROL

The Grundfos iGRID Building Measure Points are placed in strategic areas of your district heating and act as your eyes in the grid.

Pressures and temperatures are monitored in the supply and return line, and data is returned minute by minute via GSM, which can be used to adjust the pump settings and thereby optimise the heat distribution according to the real-time demand.

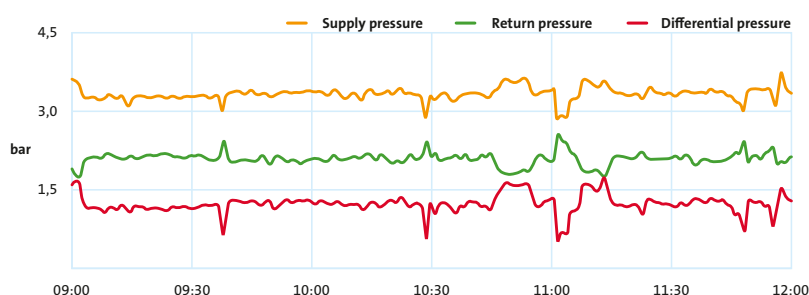


Standard solutions include two types of measure points:

- iGRID Pit Measure Points
- iGRID Building Measure Points

They can be used as standalone products

or incorporated in Grundfos iGRID Temperature Zone, Grundfos iGRID Pressure Zone and iGRID Bypass solutions.



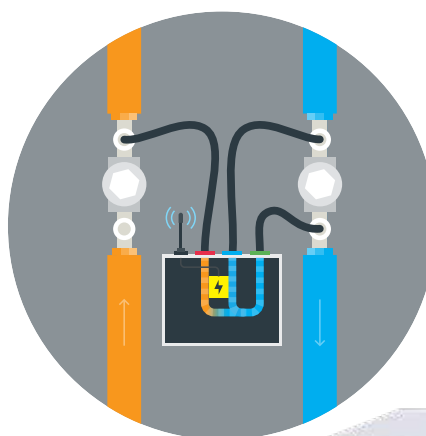
GRUNDFOS iGRID PIT MEASURE POINT

The iGRID Pit Measure Points act as your eyes in the heat grid since they are placed in important parts of the zone.

The iGRID Pit Measure Points are typically installed in already existing valve chambers or pits and they monitor on a continuous basis the pressure and temperature in the supply line. A thermal electric generator (TEG) utilises the temperature difference in the supply and return line to create sufficient energy for sharing the data every minute, ensuring that there is no need to connect to the electricity grid and no need to install and replace batteries.

The data is shared via GSM, so the device is supplied with a SIM card for which there is a small data subscription fee. The data is made available on the iGRID customer portal or on smart devices. It can also easily be connected to your SCADA system via an iGRID Receiver or an iGRID Temperature Optimiser that can control the distribution pumps.

The iGRID Pit Measure Point is very flexible and can be easily moved from one place to another, which makes it ideal for calibrating your heat grid!



PRODUCT DATA

	Grundfos iGRID Pit Measure Point	Grundfos iGRID Building Measure Point
Pressure rating	6-25 bar	6 bar
Media temperature	0-105°C	0-105°C
Ambient temperature	0-60°C	0-60°C
Min. / Max. differential temperature	+18°C / +50°C	–
Housing material	Stainless steel	Composite
Pipe connection	½"	¼" (sensor connections)
Power supply	Thermal electric generator	1 x 230V 50Hz (Schuko plug)
Rated current	–	2.4 A
IP rating	65	65
Weight	11 kg	2.1 Kg
Dimensions (W x H x D)	335 x 110 x 350 mm	231 x 98 x 160 mm

Product number	Product name
99629468	Grundfos iGRID Building Measure Point - 6 bar
99629472	Grundfos iGRID Pit Measure Point - 10 bar
99629473	Grundfos iGRID Pit Measure Point - 16 bar
99629474	Grundfos iGRID Pit Measure Point - 25 bar

GRUNDFOS iGRID BUILDING MEASURE POINT



The iGRID Building Measure Points are placed in critical buildings in the grid and act as your eyes in the heat grid, ensuring sufficient pressure and temperature for a specific building, even when there is no consumption.

By permanently collecting information regarding the building's temperature and pressure, iGRID Building Measure Points provide you the opportunity to calibrate the hydraulic calculation for a specific building.

The iGRID Building Measure Point is connected to the electricity grid and therefore there is no need for batteries.

The data collected and shared via GSM is made available online on the iGRID customer portal or via smart devices. The iGRID Building Measure Point can be easily connected to your SCADA system via an iGRID Receiver or an iGRID Temperature Optimiser. Additionally, the device is supplied with a SIM card for which there is a small data subscription fee.

GRUNDFOS iGRID IS A NEW SOLUTION RANGE FOR DISTRICT HEATING

With this range we fight heat losses and prepare for utilisation of renewable energy sources through intelligent temperature control.

By creating city zones with mixing loops, temperatures can be lowered to meet the actual demands in those zones and thereby deliver exactly the heat energy needed – nothing more and nothing less!

Find out more about the Grundfos iGRID concept by contacting your local Grundfos Sales Company or visit grundfos.com form more information.

