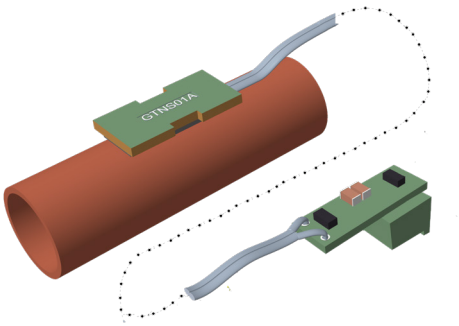
GT-P PIPE TEMPERATURE SENSOR

Accessory for chilled beam control



The GT-P pipe temperature sensor with its two interconnected modules. The pipe section is not included.

INTRODUCTION

GT-P is Lindinvent's sensor unit for temperature measurement on a cooling beam pipe.

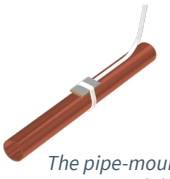
APPLICATIONS AND FEATURES

The GT-P, in combination with Lindinvent's interface LINDINSPECT, enables troubleshooting for:

- Non-functioning actuators
- Unvented pipelines
- Clogged valves
- Incorrect pipe connections
- Transmission losses in the piping system
- Condensation protection

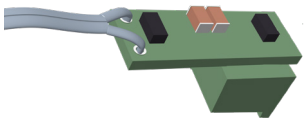
The sensor unit consists of a sensor module and a module for signal conversion to AIN. The modules are interconnected via an insulated 2-conductor cable.

The sensor Module.



The pipe-mounted sensor module.

The sensor module is a small circuit board with a temperature sensor. The module is attached to the pipe using a mounting strap.



The signal conversion module.

The signal conversion module is mounted directly onto the regulator's AIN terminal.

TECHNICAL SPECIFICATIONS

Temperature Measurement

Temperature Sensor:
Sensor module with an NTC thermistor.
Accuracy: ± 2 K

General

Dimensions
Sensor module: 20x10x5 mm
Signal conversion module: 25x18x8 mm (PCB + Connector)
Cable length: 3 m

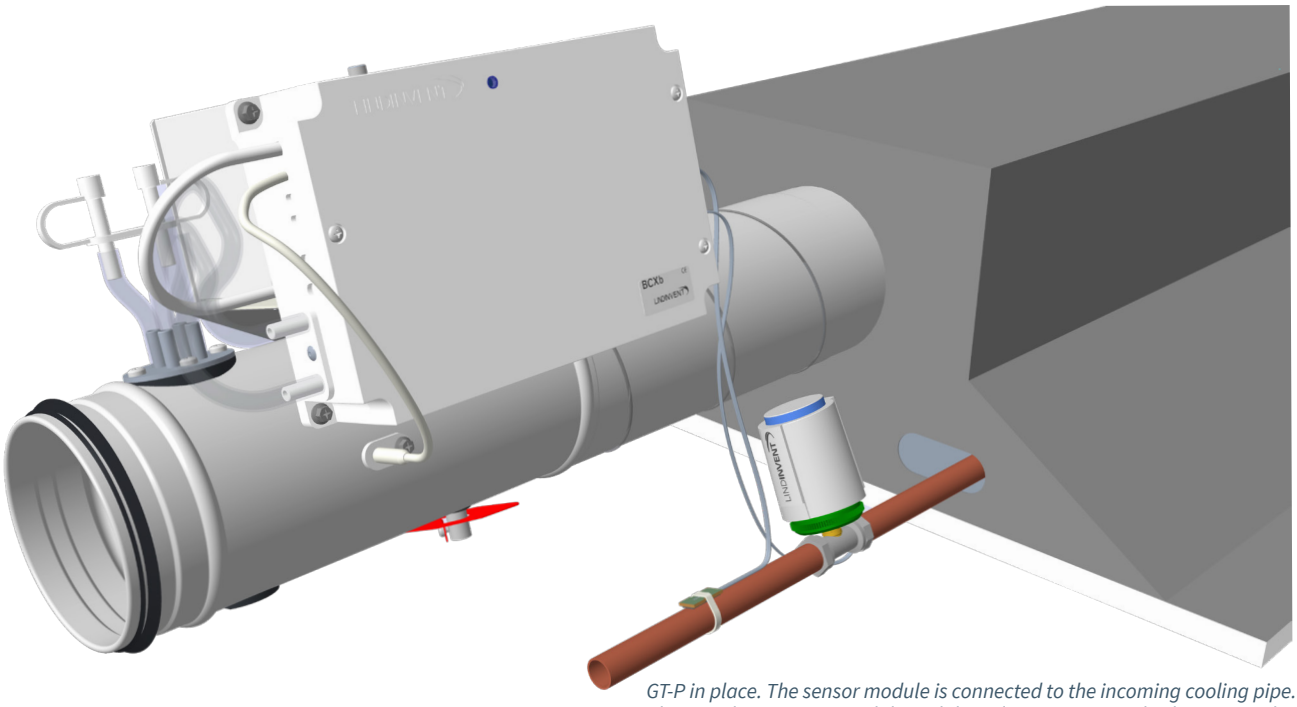
Material
Circuit board: FR4 (Coverter and sensor module)
Cable: Insulated 2-conductor, Halogen-free

Electrical System

Power Supply: 24 VAC (Via connected regulator)
Power Consumption: 0.1 VA
CE Marking: Complies with EMC and Low Voltage Directive

Input and output signals

24V AC
GND
AIN (0-5V)



GT-P in place. The sensor module is connected to the incoming cooling pipe. The signal conversion module and the valve actuator are both connected directly to the chilled beam controller.

INSTALLATION AND CONNECTION

Note: The control unit must be powered off when connecting the GT-P!

For guidance on proper installation, see the instructions and illustrations in this product description.

1. Attach the sensor module to the pipe using a mounting strap.
2. Connect the signal conversion module to the controller's AIN block terminal according to the external wiring diagram.
3. Make an opening for the cable to the sensor module with pliers and cut along a selected marking for a thinner cable.
4. The lid to the controller housing is used for fixing cables.

ADDITIONAL PRODUCT DOCUMENTATION

Documents can be accessed at www.lindinvent.com

Document	Comment
Installation Instructions	See instructions in this product description for GT-P.
Commissioning Instructions	See commissioning instructions for BCXb/DCV-B.
Maintenance Instruction	Considered maintenance-free.
External Wiring Diagram	Shows conductor connections.
Environmental Declaration	For assessment at the Byggvarubedömningen in Sweden.
AMA-text	Search via AMA code UBB for temperature sensors. See current control unit and accessory section.