

Frese SMART Balance Commissioning Unit

Description

The Frese SMART Balance commissioning unit is a wireless, handheld commissioning tool for differential pressure measurement and flow verification in heating and cooling systems.

The Frese SMART Balance offers simple differential pressure measurement and flow verification for a variety of balancing valves including the Frese STBV balancing valve range and the Frese Dynamic Balancing Valve range.

All Frese valves are preloaded in the software and can be selected for flow verification.



Operation

The main components of the Frese SMART Balance are the handheld terminal and the measurement sensor. The measurement sensor is connected directly to the balancing valve PT points using the hose kit. The measurement sensor connects wirelessly via Bluetooth to the handheld terminal, transmitting the flow and pressure readings.

Frese SMART Balance is easily operated by following the on-screen instructions displayed on the handheld terminal and by using the detailed instructions included with the unit.

The Frese SMART Balance handheld terminal is preloaded with the Frese balancing valve data and updates to the app are received automatically.

Contents

The Frese SMART Balance is delivered in a protective case for ease of transport.

Main components:

- Handheld terminal with preloaded Frese valve data
- Measurement sensor unit
- Hose kit
- Measurement needles (2 pcs)
- Handheld terminal charger
- Measurement sensor unit charger
- USB cable
- Allen key set
- Instruction manual
- Program license
- Calibration report

Frese SMART Balance Commissioning Unit

Technical data

Measurement range

Pressure class:	PN25
Differential pressure:	1000 kPa (10 Bar)
Static pressure:	1000 kPa (10 Bar)
System temperature (water):	-20°C to 120°C
Ambient temperature:	-10°C to 40°C

Measurement deviation

Differential pressure:	< 0.1% of full scale
Flow:	< 0.1% of full scale plus the valve deviation
Temperature:	<0.2°C

Environmental specifications

Measurement sensor:	IP65, Max 90%RH
----------------------------	-----------------

Weight

Measurement sensor:	0.6 kg
Complete with protective case:	2,8 kg

Range

Blue tooth connecting range:	Minimum 200 m (without antenna)
-------------------------------------	---------------------------------

Battery capacity

Handheld Terminal	
Battery capacity:	1,200 mAh
Operating time:	8 hours (continuous duty)
Charging time:	1.4 hours

Measurement Sensor

Battery capacity:	6,600 mAh
Operating time:	35 hours (continuous duty)
Charging time:	4 hours (>90%)

Product programme

Frese product code:	48-0028
----------------------------	---------

Service and Calibration

The Frese SMART Balance commissioning unit should be serviced and calibrated every 12 months to ensure the correct operation during use.



Frese A/S assumes no responsibility for errors, if any, in catalogues, brochures, and other printed matter. Frese A/S reserves the right to modify its products without prior notice, including already ordered products, if this does not alter existing specifications. All registered trademarks in this material are the property of Frese A/S. All rights reserved.

Frese A/S
Sorøvej 8
DK- 4200 Slagelse
Tel: +45 58 56 00 00
Fax: +45 58 56 00 91
info@frese.dk