

# Overview

	FMT700-P Remote	FMT700-P Compact
Measuring accuracy	±< 1% of measured value	±< 0.8% of measured value
Meas. range	Solid	Variable
NW25	0(1) – 60kg/h	0(1) – 60kg/h
NW50	0(10) – 400kg/h	0(8) – 500kg/h
NW80	0(20) – 720kg/h	0(15) – 900kg/h
NW100	0(40) – 1200kg/h	0(25) – 1500kg/h
NW150	0(80) – 2400kg/h	0(50) – 3000kg/h
NW200	0(200) – 4000kg/h	0(80) – 5000kg/h
Supply	230V through transmitter	24V external power supply

## Possible certifications:

- Calibration with factory certificate
- DAkkS certification
- Linearity certificate (EPA)  
(following US EPA CFR Part 1065 and UN/ECE Regulation No.49)

FMT700-P Compact sensor cable	
Length 5 m	3KXF003450U0100
Length 10 m	3KXF003451U0100
Length 15 m	3KXF003452U0100
Length 30 m	3KXF003453U0100

# Contact

**ABB Measurement & Analytics**  
You can find your ABB contact person at:  
**[www.abb.com/contacts](http://www.abb.com/contacts)**

Additional product information is available at:  
**[www.abb.com/flow](http://www.abb.com/flow)**

ABB MEASUREMENT & ANALYTICS

**Upgrade  
FMT700-P to  
FMT700-P Compact**  
State-of-the-art  
measurement technology



## Upgrades which contribute to improved and more reliable performance

Regular system enhancements through upgrades guarantee the continued protection of investments and future reliability of the system. It presents a cost-efficient option of extending product life and obtaining the latest technology without having to replace the entire flowmeter. The only thing that needs to be changed after the upgrade is the connection cable. Additional changes to the measurement setup are not needed.

### The upgrade:

#### Includes

- Upgrade and recalibration
- Guarantee of the functionality of the modification
- Current calibration of the device
- Mechanically compatible with the SensyFlow FMT700-P

## Measurement technology on the latest state-of-the-art

Future reliability thanks to the latest technology

- **Compact device without remote evaluation/supply unit**
- **Direct mass flow measurement of air**  
No additional pressure and temperature compensation
- **High measuring accuracy over the entire measuring range**  
Measuring accuracy < 0.8% of the measured value
- **Large measuring range**  
Measurements up to 5000kg/h  
DN25 to DN200  
Measuring range programmable
- **Quick response times T63<sub>25ms</sub>**  
Detection of rapid load changes on engine test benches
- **Complete system with inlet and outlet sections**  
Easy to use  
Immediately ready for operation  
Existing measuring sections can continue to be used
- **Use in test bench applications, intake air measurement for motor, turbocharger and fuel cell test benches, quality assurance, research and development**

**Permissible measuring medium temperature Tmedium**  
-25 to 50 °C (-13 to 122 °F)

**Permissible operating pressure**  
(0.6... 2.5 bar abs.)

**Power supply**  
24 V DC, ±10 %

**IP rating**  
accordance with EN 60529: IP 54

**NEMA rating**  
accordance with NEMA 12

**Communication**  
serial, V24 / RS232C

**Outputs in serial production**  
Analog outputs  
0 / 5- 10 V DC, 0 / 4 - 20 mA

**Alarm digital output**  
Pulse / frequency output

The Sensyflow FMT700-P Compact can operate with an output (current 0 / 4 to 20 mA or voltage 0 to 5 / 10 V), a digital output (frequency, pulse, alarm) and the serial RS 232 interface at the same time. Parameterization of the measuring system can also take place via the serial interface. Using a windows based system, you can change the output signal used or the adjust the settings of the measuring ranges and signals.

