PCU-10 Display and Control Device
For Thermal Mass Flow Meters and Controllers

The PCU-10 permits the operation of up to 10 flow meters of the red-y smart series with predefined process recipes. The compact control unit with a color touchscreen and integrated power supply comes supplied as a desktop device, switch panel mounting variant or in the 19“ plug-in unit. The connected red-y smart meter and controller are automatically detected and displayed with serial number, measurement range and calibrated gas type. The four operating modes single instrument control, gas mixer, master-slave mixer and burner controller are available in English. The saved values are stored in an EEPROM memory which does not require a back-up battery. The desktop case version comes supplied with the PCU-10, a CD with the get red-y software, as well as the power cord. The front panel mounting variant – and the 19“ plug-in unit variant come supplied with a CD, but without a cable.

Special Features
- Display of the gas flow set value for each connected meter and controller
- Display of the gas flow actual value for each connected meter and controller
- Specification and storage of set values
- Storage of up to 12 different gas mixtures as recipes
- Total flow meter for each connected meter and controller
- Specification of minimum and maximum limit values with red alarm display on reaching the limits
- Gas mixer with up to 12 recipes
- Display of the instrument temperature of the connected meter and controller
- Mixed operation with Vögtlin and BHT devices possible
- No additional mains adaptor required
- Control of the connected meter and controller with a PC by means of PDM-U connection cable
- Use of the Vögtlin get red-y software on a PC for direct configuration of the meter and controller

get red-y Software and PCU-10
The get red-y software that comes supplied with all digital Vögtlin products makes it possible with a connected PC to easily adapt the function parameters of the connected meter and controller to custom values. Upon request it records measurement data or optimizes your application in just a few steps thanks to digital technology.

PCU-10 PLUS Gas Mixing Systems
In addition, upon request custom gas mixing systems are available on the basis of the PCU-10
Technical Specifications

Temperature conditions
Storage: -10°C to 60°C, non-condensing
Operation: 0°C to 50°C, use only in internal rooms

Case variants
Desktop case
Dimensions (WxHxD): approx. 360x190x270mm
Protection class: IP50
1 Power cord with power plug with ground contact
1 Main switch with glow lamp and fuse
1 Sub-D 9-pin plug for PDM-U cable for connection to a PC
4 Sub-D 9-pin connectors for RS-485C Modbus RTU (Art. No. 328 3007)
Or optional with
8 Sub-D 9-pin connectors for RS-485C Modbus RTU (Art. No. 328-3007)

Panel mount
Dimensions (WxHxD): approx. 114x173x50mm
Protection class: IP50
1 Sub-D 9-pin plug for PDM-U cable for connection to a PC
1 Sub-D 9-pin connector for RS-485C Modbus RTU
19" Rack insert, 3HE
Dimensions (WxHxD): approx. 483x132x300mm
Protection class: IP50
1 Sub-D 9-pin plug for PDM-U cable for connection to a PC
1 Sub-D 9-pin connector for RS-485C Modbus RTU

Display window and operation
Color touch screen, easy to read, self-illuminating
Menu language: English
Dimensions (WxH): approx. 100x60mm
Protection class: IP50

Power supply
100…240 VAC, 50-60 Hz, 1.3 A, upon request stronger version available

Order numbers
Desktop case with 4 Sub-D connectors: 328-3004
Desktop case with 8 Sub-D connectors (delivery upon request): 328-3007
Switch panel mounting version: 328-3005
19" Rack insert: 328-3006
BFC cable for connection of a meter or controller, 2m: 328-2163
PDM-U cable for connection to a bus power cable, 2m: 328-2169
BAM cable, bus analog module, 0,1m: 328-2151
BEC cable, bus expansion cable, 0,5m: 328-2160
BEC cable, bus expansion cable, 2m: 328-2161
BEC cable, bus expansion cable, 5m: 328-2162
BTM terminal plug, bus termination module: 328-2139