

# 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.



Fig.1 **PCU-10 Display and Control Device for the thermal Mass Flow Meters and Controllers of the red-y smart series**



Fig.2 **get red-y Software**

### 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*

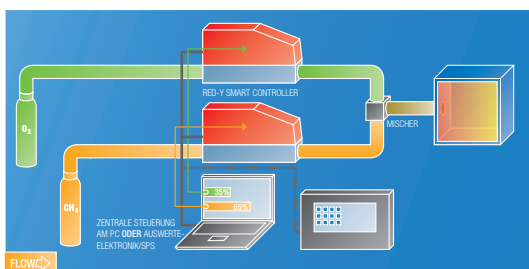


Fig.3 **PCU-10 PLUS Gas Mixing Systems**



## 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 time 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 |



Fig.4 **Connections PCU-10**  
(Art. No. 328-3004)

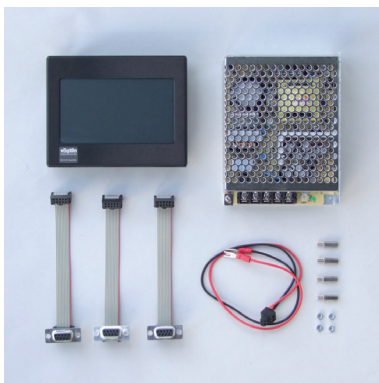


Fig.5 **Scope of delivery of front panel mount**