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.

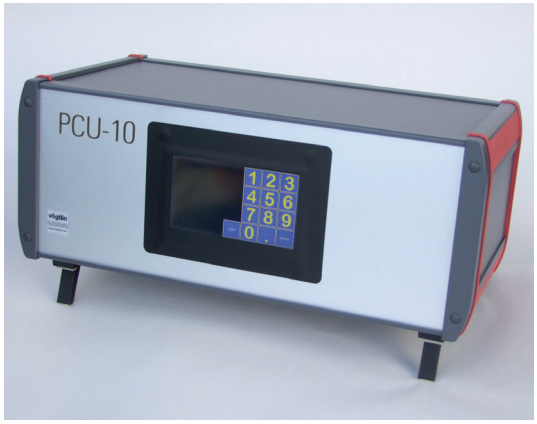

Fig.1 **PCU-10 Display and Control Device for the thermal Mass Flow Meters and Controllers of the *red-y smart series***

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

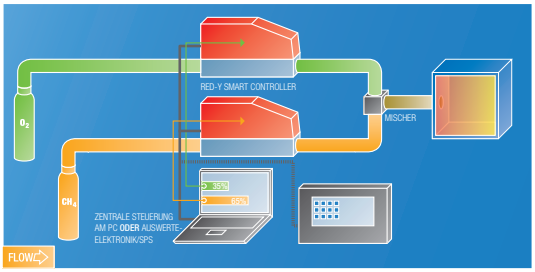

Fig.3 ***PCU-10 PLUS* Gas Mixing Systems**

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*

Certified System SWISSTS ISO 9001

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

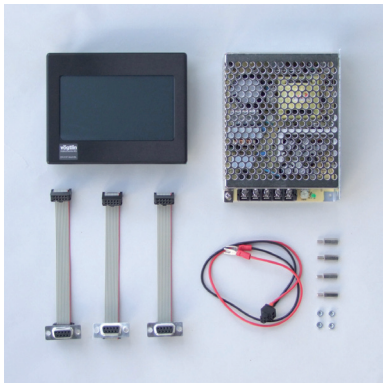

Fig.5 **Scope of delivery of front panel mount**

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*

Certified System SWISS TS ISO 9001

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