SWITCHING UNIT
Type XT-U1

- **Compact design**
- **Variable temperature setting**
- **Modular construction**
- **High tightness**
- **4 positioning opportunities**

Removal of a representative measuring gas from the exhaust of different combustion engines is one of the most important and at the same time most difficult tasks of on-line analysis. Selection of the suitable preparation modules poses a special problem for the user that requires careful observation of many factors. The switching modules of the XT-LINE series by CGS makes it much simpler to set up a complex analysis system. The XT-U1 is the entrance model of the series and suitable for use in diesel, petrol or gas engines. The XT-U1, heated to max. +200°C, can switch and pressure-relieve the sample gas in its full equipment.

The XT-U1 can be equipped with up to 3 measuring gas inlets and one measuring gas outlet (for more inlets, please choose module XT-U2) and thus serves to switch different tapping points. Of course, the heated tapping lines of the measuring gas inlets (max. 3 plus 1 outlet line) are also controlled by the module.

The patented pneumatically controlled valves that connect the selected gas paths up to 3.5 bar (a) are placed on the switching block. For higher inlet pressures up to 10 bar (a) the specially CGS developed high pressure valves will be used. They are switched by solenoid valves. The solenoid valves are controlled via the integrated CGS control. Control of the internal heating circuits and the connected heated measuring gas lines is also performed by the integrated control unit.

The XT-U1 can be equipped with an optional pressure controller that reduces high pressures from the exhaust to protect downstream analysis systems. Many sensors used provide information on temperature and pressure at all times.

An additional feature is the flexible installation of the module in 4 different positions.

Digital form at:
www.cgs-company.de/
downloads/MDZ_E_D_XT-U1.pdf

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SWITCHING UNIT
Type XT-U1

Technical data

- Power consumption: Depending on design max. 16 A
- Piping: 8/6 mm Pipe Fitting
- Max. inlet pressure: max. 3.5 bar abs. ; 10 bar high pressure [higher pressures on demand]
- Control air: 6 bar
- Classification control air: Filtered compressed air, oil free, by ISO 8573-1, Class 3.4.3
- Temperature sensor: NiCr-Ni (Type K), PT100, Fe-CuNi
- Materials:
  - Utility zone: Stainless steel 1.4305 & 1.4404 / PTFE
  - Housing: Aluminium, anodized/ powder-coated
- Power supply: 230 V/50 Hz (Mains-connection cable 3 m)
- Heating power internal: 400 W
- Heating power external:
  - Input: 3 x 540 W (max.)
  - Output: 1350 W (max.)
- Temperature: up to +200°C
- Measurements (WxHxD): 350 x 525 x 350 mm
- Weight: 27 kg

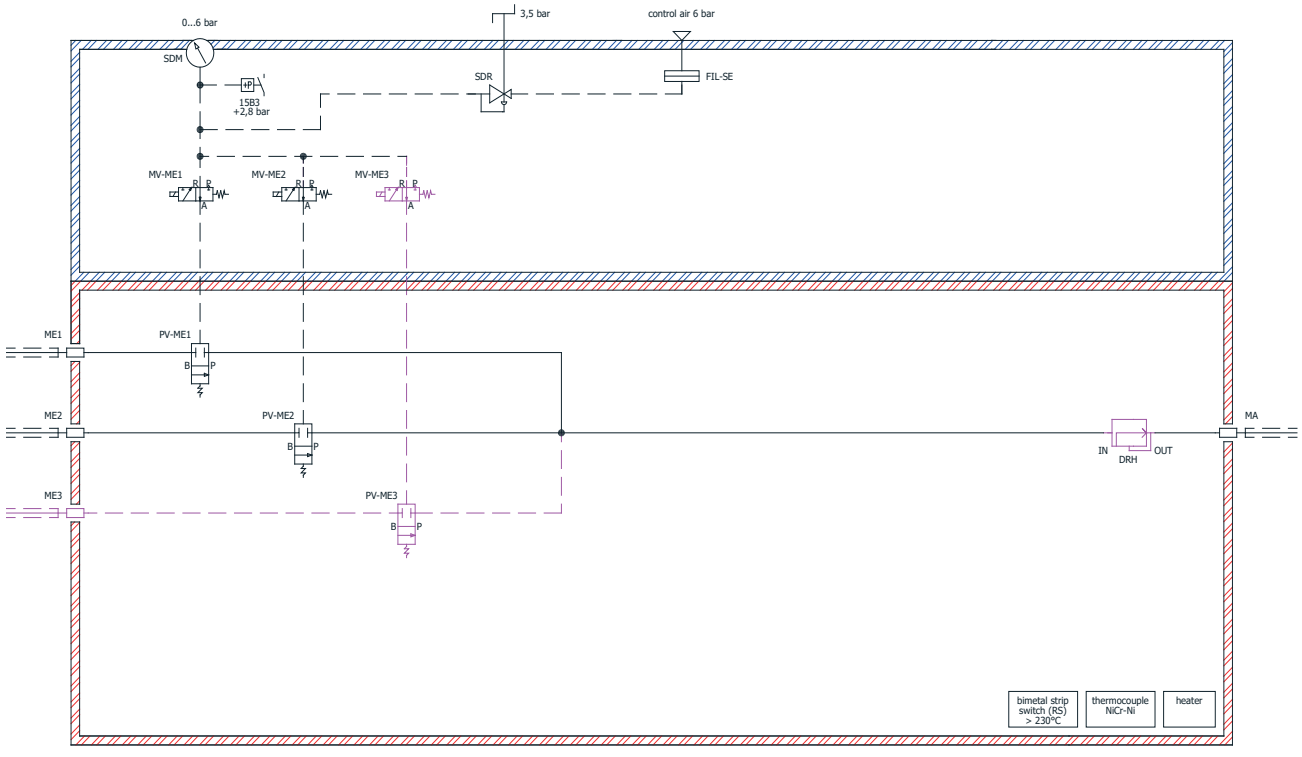
Accessories

- Heated pipe in various lengths
- Gallows mounting
- Heated wall duct

Options

- 3 Sample gas inlets
- Pressure controller

Gas flow scheme



ME: sample gas input MA: sample gas outlet	SDM: control pressure gauge SDR: control pressure regulator	DRH: pressure controller heated FIl-SE: purge air filter	15B3: pressure switch	options : ME3: sample input 3 DRH: pressure controller

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