

# Central Gas Supply System

for non corrosive and corrosive gases  
and gas mixtures up to purity 6.0

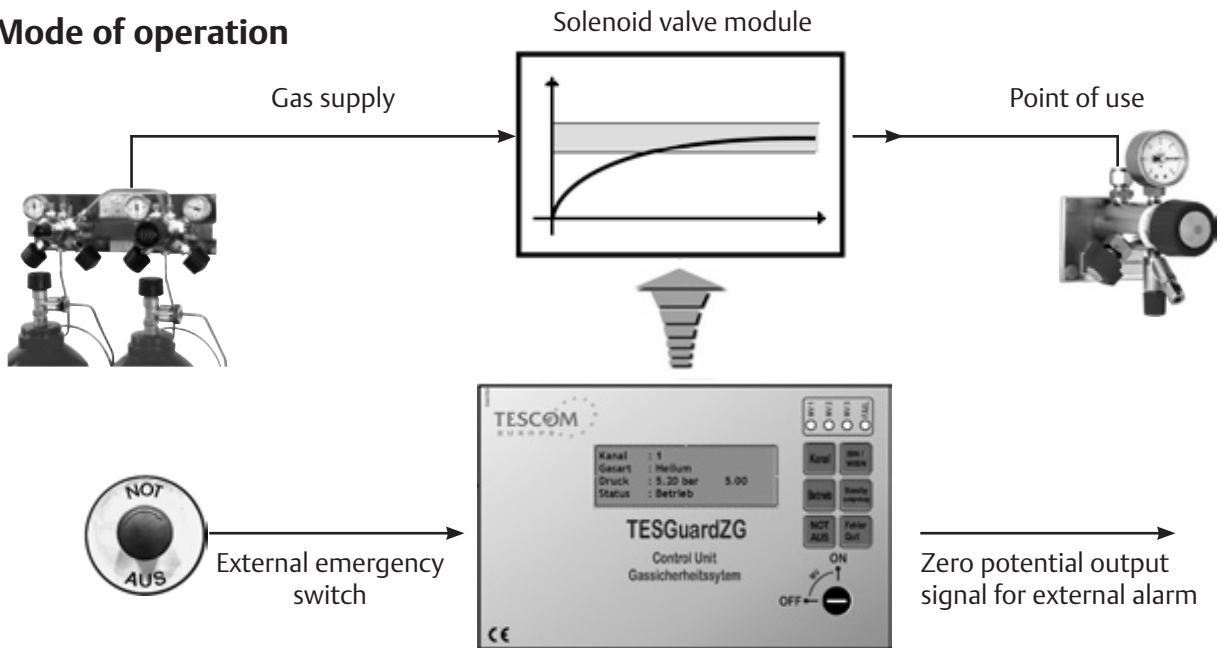
# Gas Safety System

TESGuardZG

The control unit of the **TESGuardZG** gas safety system monitors function and leak-tightness of 1 to 3 gas pipes and has both a visual and sonic alarm in the event of an operational fault in your gas system. The central gas system is continuously monitored for pressure irregularities, leakage and physical pipe damage. When the gas supply system is off, all connections are constantly checked for seal integrity and, if necessary, the system is shut-down automatically. During start-up or reconnection **TESGuardZG** will run an integrity/plausibility check and in the event of a malfunction will lock out the entire gas supply system. In addition to the local alarm functions of the control unit, an optional output signal can be sent, e.g. to a central control room.

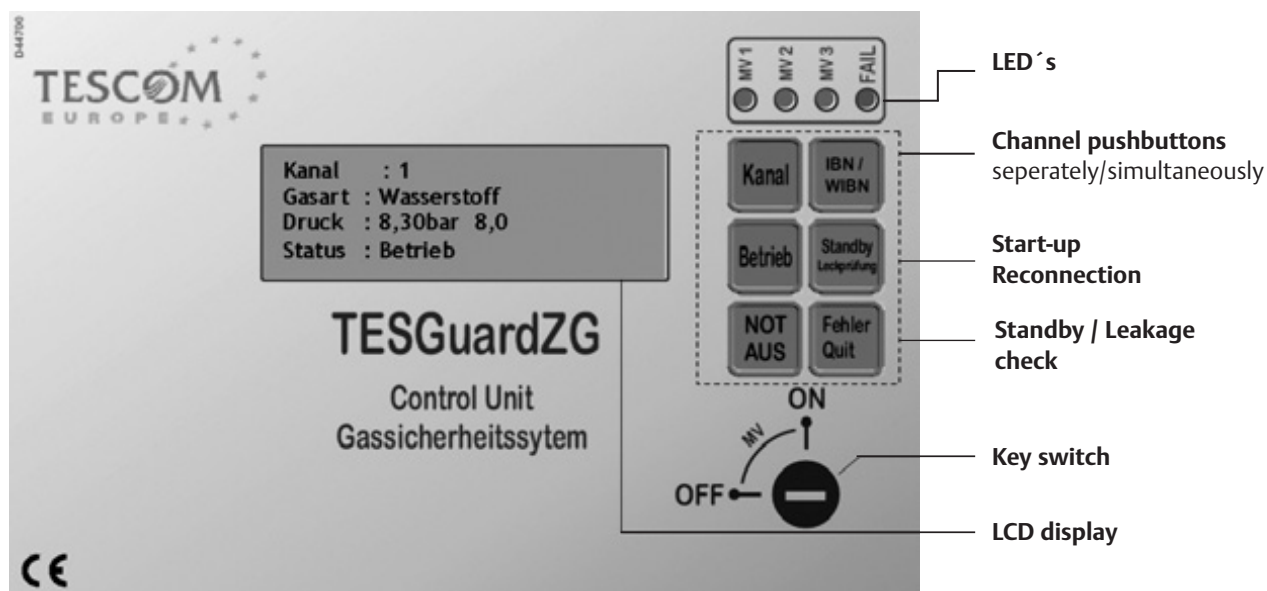


## Mode of operation



This diagram applies for 1 channel/gas pipe. The control unit of the TESGuardZG controls the solenoid valve module. The gas supply system is monitored continuously.

## TESGuardZG Control Unit for 1-3 gas pipes



## Ordering Information

### 1. TESGuardZG

- D50500-1 – 1 gas pipe
- D50500-2 – 2 gas pipes
- D50500-3 – 3 gas pipes

### 2. Solenoid valve module Type TE-VMM

for each gas pipe consisting of

- 1 Solenoid valve
- 1 Transducer
- 1 Tee with fitting / 1/4" / fitting

Example: For a gas system with 6 gas pipes you need 2 TESGuard Control Units D50500-3 and for each gas pipe one solenoid valve module TE-VMM

### Example ordering number solenoid valve module

VMM - 10 - 6 - 1 - SIP - Hydrogen

BASIC	TUBE – NOMINAL WIDTH	MATERIAL	INLET PRESSURE	DESIGN	GAS
VMM	06 – 6 mm	1 – Brass	1 – 1,5 bar	EEX – EX-design	Please specify gas type e. g. Hydrogen
	08 – 8 mm	6 – Stainless Steel	10 – 10 bar	SIP – IP 65-design	
	10 – 10 mm		20 – 20 bar		
	15 – 15 mm				
	20 – 20 mm				