



- ◆ The sensor and control central system UE-04.1 is a central system for activating explosion technical decoupling systems and explosion suppression systems.
- ◆ Using quick closing gate valves the pipelines are sealed off and prevent the expansion of the explosion, explosion suppression systems prevent an explosion via immediate use of special extinguishing agents
- ◆ Two monitored sensor lines for activation of the two triggering lines and a fault sensor line for equipment monitoring are available
- ◆ The sensor lines can be switched in two-line dependency
- ◆ Connection of all sensors from Brandtronik GmbH and numerous other brands in two- and four-wire technology
- ◆ The triggering lines control safety systems, such as quick closing gate valves or explosion suppression systems
- ◆ Two monitored outputs for triggering
- ◆ **Relay outputs for:** Fault, prealarm, alarm, triggering 1 and triggering 2
- ◆ Ground fault monitoring for unsymmetrical ground faults
- ◆ Control elements for quick closing gate valves on the front plate

Technical data:

Two-range quick closing gate valves and HRD extinguishing system control UE-04.1

Operating voltage	115 V~/230 V~/24 V=	Outputs triggering 1/2:	
Operating current at 230V~	approx. 120mA	Monitoring current	5 mA
		Operating current	1A (2A for 2 min.)
Power supply 24 VDC, Load:		Short circuit current	5A for 50ms
2A	max. 10 min.	Short circuit range	0Ω...20Ω
1A	max. 2 h	Operating range	25Ω...1,5kΩ
0.5A	unrestricted	Open circuit range	> 2,5kΩ
Rechargeable battery:		Extinguishing time	50ms
installed	24 V/2,3 Ah	Short circuit monitoring	can be switched off
external	max. 24V/20Ah		
Undervoltage shutoff	< 21V	Valve control 1/2 open/closed:	
		Monitoring current	5 mA
Dimensions	290 x 220 x 150mm	Operating current	< 1A
Weight without rechargeable battery	3kg	Short circuit range	0Ω...15Ω
Temperature range	0...+50°C	Operating range	25 Ω...1,2k Ω
Housing safety class	IP65	Open circuit range	> 2,5kΩ
Relay outputs:		Options:	
Fault, potential-free changeover contact	1x 30 V=/1A		
Prealarm, potential-free changeover contact:	1x 30 V=/1A		
	1x 230 V~/2 A		
Alarm, potential-free changeover contact:	2 x 30 V = / 1 A		
	1x 230 V~/2 A		
System off, potential-free changeover	1x 30 V=/1A		
Alarm line L1, L2, L3:		Special features:	
Line voltage	24 VDC	- Reaction time of the activation of the sensor line until the activation of the extinguishing system switchable 4 ms / 100 ms - Delay of the fault indicator rechargeable battery or power failure can be set to 10s, 100s, or 1000s - Ground fault monitoring for unsymmetrical ground faults - Status indicator of the central system via LED on the front plate - Control elements on the front plate: Isolator, confirmation buzzer/horn, Reset	
Line terminal resistor	4k7		
Sensor current	< 2mA		
Short circuit range	0Ω...120Ω		
Alarm range	180Ω...900Ω		
Operating range	1,5kΩ...7kΩ		
Open circuit range	> 10kΩ		
Reaction time L1/L2	4 ms / 200 ms		