



- ◆ The spark extinguishing system control FU-01.1 is used for the control and monitoring of single range spark systems, for protection of machines, pipelines or also painting or powder coating cabins.
- ◆ DIP switches enable configuration for a wide spectrum of applications.
- ◆ Two monitored sensor lines are available:
a monitored sensor line for spark sensor,
a monitored sensor line for monitoring a flow monitor
- ◆ Two monitored outputs for warning and extinguishing
- ◆ Automatic extinguishing time delay after detection of another spark
- ◆ **Relay outputs for:** Fault, alarm and system off

Technical data:

Single range spark extinguishing system control			
Operating voltage	230 V~ (115 V~)	Output warning:	
Operating current at 230V~	approx. 65 mA	Monitoring current	5 mA
		Operating current	< 0,5 A
Power supply 24 VDC, Load:		Short circuit range	0Ω...22Ω
1A	max. 10 min.	Operating range	25Ω...1,5kΩ
0.5A	max. 2 h	Open circuit range	> 2,5kΩ
0.25A	unrestricted	Time limitation	210 sec
Rechargeable battery:		Extinguisher output:	
installed	24V/0.8Ah	Monitoring current	5 mA
external	max. 24V/10Ah	Operating current	1A
Undervoltage shutoff	< 21V	Short circuit range	0Ω...22Ω
		Operating range	25Ω...1,5kΩ
Dimensions	230 x 185 x 120 mm	Open circuit range	> 2,5kΩ
Weight with rechargeable battery	2.3kg		
Temperature range	0...+40°C	Extinguishing time	3...25 s
Housing safety class	IP65		
Relay outputs:			
Fault, potential-free changeover contact	1x 30 V= / 0,5 A	Special features:	
		- The second sensor line monitors a flow monitor, fault indicator for water flow without extinguishing, alarm for extinguishing without water flow	
Alarm, potential-free changeover contact:	1x 30 V= / 0,5 A	- After each extinguishing the central system is immediately ready for a repeated extinguishing, during an active extinguishing a new spark extends the extinguishing time by the set time	
contact	1x 30 V= / 0,5 A	- Integrated adjustable spark counter, with overrun -> alarm and system shut down	
		- External connection for system shutdown	
Alarm line L1/L2:		- Delay of the fault indicator with power failure approx. 12s	
Line voltage	24 VDC	- Delay of the fault indicator with rechargeable battery failure approx. 100s	
Line terminal resistor	4k7	- Status indicator of the central system via LED on the front plate	
Sensor current	< 2mA	- Control elements on the front plate: Isolator, confirmation buzzer, reset	
Short circuit range	0Ω...120Ω		
Alarm range	180Ω...900Ω		
Operating range	1,5kΩ...7kΩ		
Open circuit range	> 10kΩ		
Spark counter (no. of sparks)	1...11		