



- ◆ The spark extinguishing system control FU-01 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,  
one monitored sensor line for operating equipment monitoring
- ◆ 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			
<b>Operating voltage</b>	230 V~ (115 V~)	<b>Output warning:</b>	
<b>Operating current at 230V~</b>	approx. 65 mA	Monitoring current	5 mA
		Operating current	< 0,5 A
<b>Power supply 24 VDC, Load:</b>		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
<b>Rechargeable battery:</b>		<b>Extinguisher output:</b>	
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
<b>Dimensions</b>	230 x 185 x 120 mm	Open circuit range	> 2,5kΩ
<b>Weight with rechargeable battery</b>	2.3kg		
<b>Temperature range</b>	0...+40°C	<b>Extinguishing time</b>	3...25 s
<b>Housing safety class</b>	IP65		
<b>Relay outputs:</b>			
Fault, potential-free changeover contact	1x 30 V=/0,5 A	<b>Special features:</b>	
		- 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	
Alarm, potential-free changeover contact:	1x 30 V=/0,5 A	- Integrated adjustable spark counter, with overrun -> alarm and system shut down	
contact	1x 30 V=/0,5 A	- External connection for system shutdown	
		- Delay of the fault indicator with power failure approx. 12s	
<b>Alarm line L1/L2:</b>		- Delay of the fault indicator with rechargeable battery failure approx. 100s	
Line voltage	24 VDC	- Status indicator of the central system via LED on the front plate	
Line terminal resistor	4k7	- Control elements on the front plate:	
Sensor current	< 2mA	Isolator, confirmation buzzer, reset	
Short circuit range	0Ω...120Ω		
Alarm range	180Ω...900Ω		
Operating range	1,5kΩ...7kΩ		
Open circuit range	> 10kΩ		
<b>Spark counter (no. of sparks)</b>	1...11		