

EMA Signal ES31

Level control

Level control unit for thermistor probes

- Universal modules
- High or Low level alarm
- ATEX certified
- Failsafe design



Function

Ema Signal type ES3 is an ATEX certified universal alarm unit for use with special thermistor probes.

The probe sensing element consists of a PTC-type thermistor.

PTC = Positive Temperature Coefficient, this means that when the thermistor is heated up by a intrinsically safe current it causes to increase its internal resistance. Since the thermistor only can reach its higher temperature in air or gas therefore the control unit connected to the thermistor can easily determine if the probe is in air, gas or liquid.

The unit can be used for both conducting and non conducting liquid by choosing a suitable type of sensor probe. Since the control unit is ATEX-certified it can be used for level control of flammable liquids and acids etc.

Application

The control unit is universal and can be used for both high or low level alarms. The design is failsafe which mean that the unit will give alarm for different faults in the sensor connection circuit.

The unit has one voltage free switching relay output which can be used for lamp connections or pump control etc.



Technology for Environmental Protection
Measuring. Controlling. Monitoring.

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Technical Data ES31:

Power supply:	230 VAC
Relay output:	1 switching / voltage free
Intrinsically Safe:	Ⓔ II (1) G [Ex ia Ga] II B
Circuit Operating temperature:	0° - +50°C
Protection:	IP40
Dimensions (mm):	110x50x110 (HxWxD).

Certificate:

ES31	DNV 23 ATEX 96444X DNV 23 UKEX 06408X
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Options

- AQ220** Separate audible alarm with relay output for lamp and siren output with external acknowledge.
- Probes** We have a wide variety of different probes suitable for most applications. Please check our probe data sheets for more technical information.