

# TERRABOX TCB030 GROUNDING SYSTEM - STANDARD

Zones 1, 2, 21, 22

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## ATEX EARTHING SYSTEMS

ZONES 1, 2 (gas) & 21, 22 (dust)



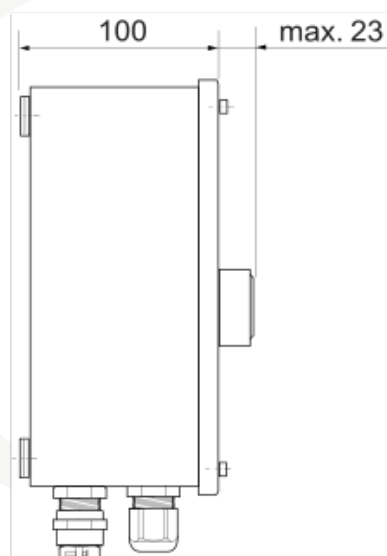
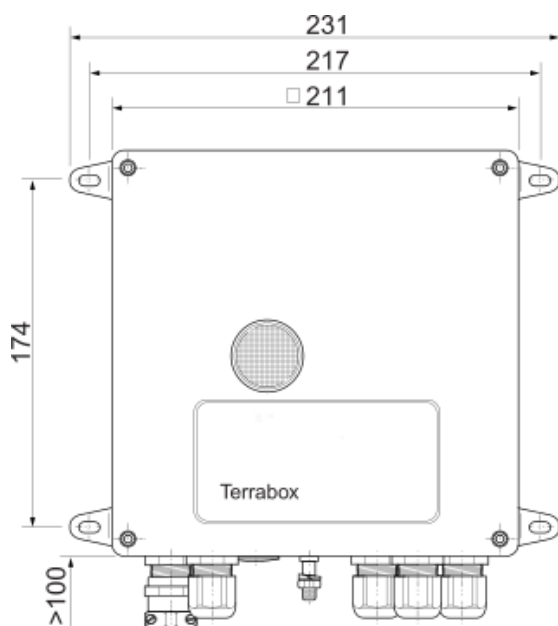
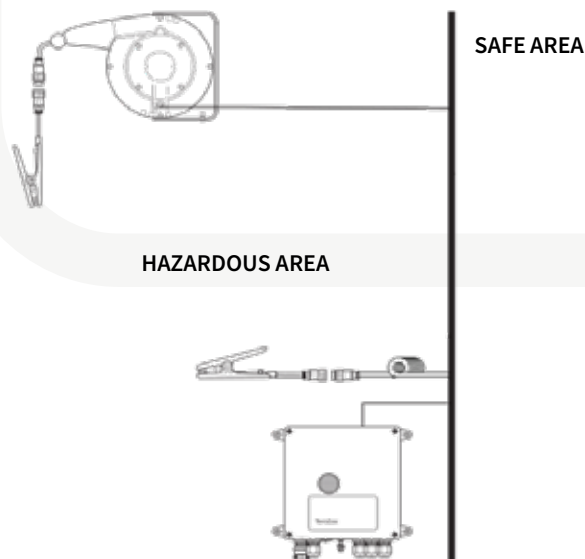
Terrabox TCB030 is designed for direct installation in explosion hazard areas and for connecting a clamp. The dual-color indicator lamp signals the correct grounding state. The integrated contacts allow an enable circuit to be implemented.

The controlled grounding principle used in the TERRABOX TCB030 system ensures that static charges developing in potentially explosive atmospheres (e.g. during loading, discharging or refilling) are safely avoided. This means that the risk of ignition caused by uncontrolled static discharges is eliminated at source.



EU-Type Examination Certificate

ITEM REFERENCES		
Designation:		Item No.:
 TERRABOX TCB030 / S2		6D0841
 601KR/DW12030BX Cable Rewinder		6D0814
 5m Grounding cord set blue cable KG/BSAB050		6D0815
 70AG Earthing Clamp		6D0821



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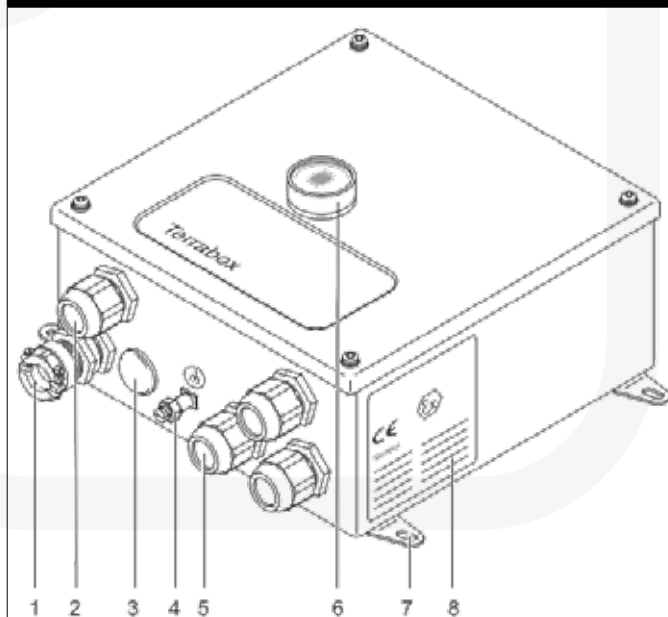
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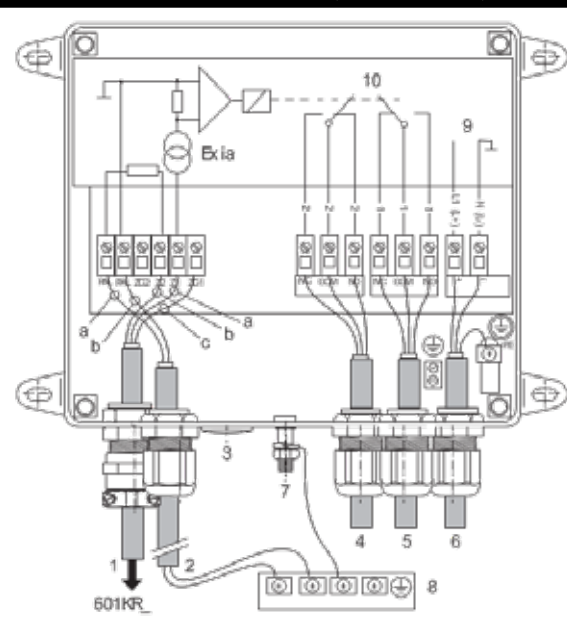
## TECHNICAL SPECIFICATIONS

Marking:	 
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +70°C
Ambient humidity:	Max. 80 % r.h., non-dewing.
Supply voltage:	230 (210...250) V AC 50/60 Hz, 50 mA. Maximum safety voltage $U_m = 250$ V
Design:	Sheet metal steel with wall bracket, enameled
Ingress protection:	IP64 according to EN 60529
Dimensions:	211 x 211 x 123 mm
Weight:	Approx. 5 kg
Indicator signal: (Contact circuit)	2 floating changeover contacts Load capacity: $U \leq 230$ V; $I \leq 5$ A; $P \leq 100$ VA Maximum safety voltage $U_m = 250$ V, Switching signaled by dual color indicator light red/green
Measurement circuit:	Intrinsically safe, EN 60079-11 Maximum voltage $U_o$ : 35 V Maximum current $I_o$ : 1.5 mA Maximum output $P_o$ : 13 mW Maximum permissible connected load Capacity / inductance: $C_o/L_o$ : 37nF/50mH or 45nF/2mH, linear characteristic
Operating points:	Standard TCB030/S_: ON <20 kOhm, OFF >50 kOhm / $\pm 20\%$

## VIEW OF APPLIANCE



## CONNECTION EXAMPLE (601KR + 70AG)



1	Cable gland with kink guard (Ex)	1	Ground clamp supply lead
2	Cable inlet	2	PAL connection (2 x 1,5mm <sup>2</sup> )
3	Blanking plug	3	Blanking plug
4	Ground terminal	4	Signal contact
5	Cable inlet (3x)	5	Signal contact
6	Indicator lamp, dual color (green/red)	6	Supply voltage lead
7	Mounting bracket (4x)	7	Ground terminal
8	Type plate	8	Equipotential lead
		9	Supply voltage 230 VAC, see type plate
		10	Contact position diagram: no enabling, indicator lamp red
			core colors - a: blue / b: brown / c: green/yellow