

Installation: hazardous areas - Zone 1 / 2 (Gases)

Classification: Group II - Category 2G

Certificate NEMA Type 4X













REFERENCE STANDARDS

SM2021F ELECTRONIC SYSTEM							
(⊕ II 2 G) Ex db IIA or IIB or IIB+H2 T6 (⊕ II 2 G) Ex db [ia/ib IIA or IIB or IIC Ga] IIA or IIB or IIB+H2 T6 (⊕ II 2 D) Ex tb IIIC T85°CT200°C (⊕ II 2 D) Ex tb [ia Da/ib] IIIC T85°C							
EN/IEC 60079-0; EN/IEC 60079-1; EN/IEC 60079-11; EN/IEC 60079-31							
INERIS 13 ATEX 0022X							
IP66							
-60°C ÷ +80°C							
Component: INERIS 13 ATEX 9019U							
IECEx: IECEx INE 13_0070X							
INMETRO: CEPEL 12.2139							
EAC: TC RU C-ΙΤ.ΓБ02.B.00689/18							
RINA: ELE18111CS_012							
RUSSIAN MARINE CERTIFICATE (RMRS): 19.02523.280							
NEC 505: UL 20141204-E302348 - Type rating NEMA 1, 12, 4 and 4X							

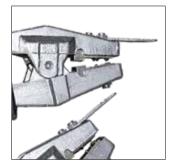
SM2021IIC FLECTRONIC SYSTEM

SM2UZIIIG ELEGI KUNIG SYSTEM								
Directive 2014/34/EU								
EXECUTION	 ❷ II 2 G Ex db IIC T6T3 ❷ II 2 G Ex db [ia/ib/ic IIA or IIB or IIC Ga/Gc] IIC T6T3 ❷ II 2 D Ex tb IIIC T85°CT200°C ❷ II 2 D Ex tb [ia Da/ib/ic Dc] IIIC T85°CT200°C 							
RULES OF COMPLIANCE	EN/IEC 60079-0; EN/IEC 60079-1; EN/IEC 60079-11; EN/IEC 60079-31;							
EC Type-Examination Certificate	INERIS 13 ATEX 0023X							
PROTECTION DEGREE	IP66							
AMBIENT TEMPERATURE	-60°C ÷ +80°C							
OTHER AVAILABLE CERTIFICATES	Component: INERIS 13 ATEX 9019U							
	IECEx: IECEx INE 13.0071X							
	Component: IECEx INE 13.0085U							
	INMETRO: CEPEL 12.2137							
	EAC: TC RU C-IT.ГБ02.В.00689/18							
	RUSSIAN MARINE CERTIFICATE (RMRS): 19.02523.280							

Mechanical characteristics

Body	marine grade copper free aluminum light alloy				
Cover	marine grade copper free aluminum light alloy				
Screws	stainless steel				
Internal plate	hot dip galvanized steel				
External Painting	epoxy powders RAL-9006 Grey coloured				
Hinges	casted on enclosure's body and cover (SM2021F)				

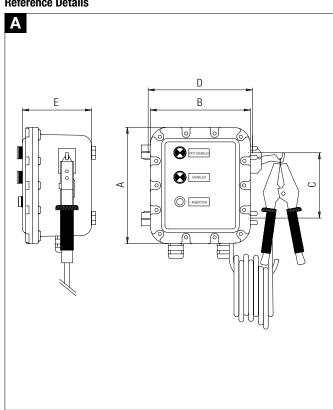




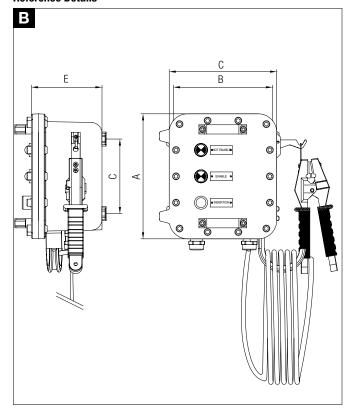
Technical Features

CODE	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	WEIGHT [Kg]	DETAIL
SM2021F	285	245	160	276	169	12	А
SM2021IIC	285	245	169	226	170	13	В

Reference Details



Reference Details



APPLICATIONS

They are used to control grounding continuity during thanks loading and unloading operations.

Thanks normally arrive electrostatically loaded, and an imperfect earthing might cause fire originated by a spark in presence of gas.

The earthing control system is composed of a marine grade copper free aluminium enclosure, as above described, inside fitted with the earthing control electronic circuit SM-2001, which is normally set at 20 ohm, and authorize thanks loading/unloading when resistance is less than 20 ohm.

An intrinsically safety barrier placed inside the equipment and connected via the included cable clamp kit to the electronic system allows the on and only verification of the correct / perfect ground connection of the tank.

The tank ground connection is to made only with proper grounding clamp series IT (not included).

Enclosure is provided with: NOT AVAILABLE red light – AVAILABLE green light - INSERTION push button.

Red electronic system SM.. pilot light remain lit till grounding clamp IT series (not included) is perfect connected to vehicle's earthing bar. Insertion push button is pressed for at least 2sec.

If the resistance measured by electronic circuit is less than 20ohm, SM electronic system allows for loading and unloading operations. Earthing clamp for verification is normally complete with 8m of cable.

FOR GROUNDING TANKS CONNECTIONS, PLEASE USE EARTHING CLAMPS IT.. SERIES SHOWED ON PREVIOUS BULLETIN

REMARK: