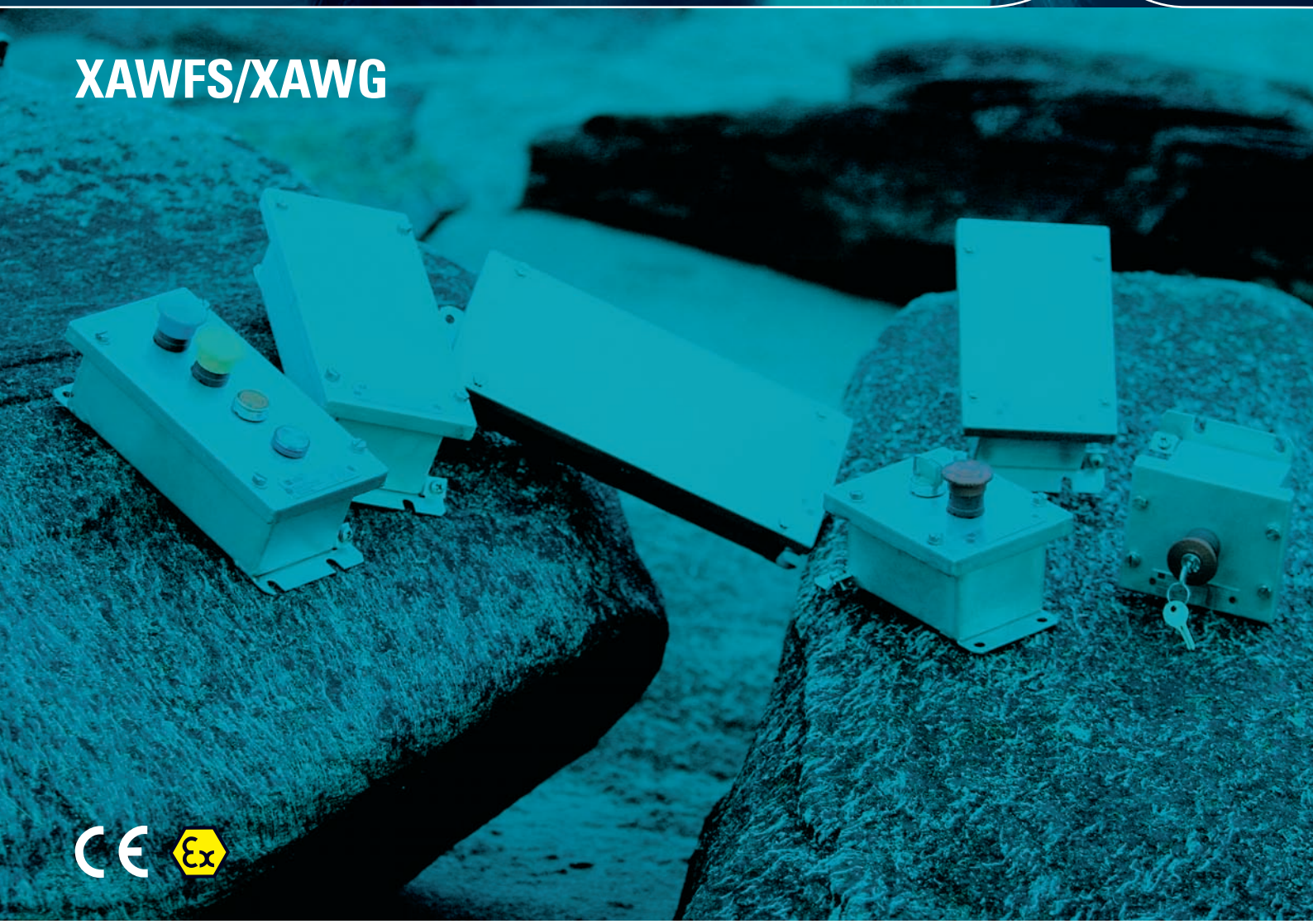
Technor

EEx ed Control boxes and stations

XAWFS/XAWG



Features

The range of control boxes/stations comprises many standard sizes of enclosure. Type XAWFS is made in SS316, type XAWG is made in GRP.

- Product range with many standard sizes.
- Ingress protection to meet harsh environment with IP66 as standard.
- Wide temperature range (-20°C to +60°C)
- Drainage flange to prevent penetration of water in XAWFS version.
- Control equipment possibilities.
- Several earthing alternatives.
- High operational reliability and cost efficiency, reduced lifetime maintenance costs.
- ATEX approved.

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Applications

The range of control boxes/stations are designed to meet the various markets, and are ideal for offshore, Onshore, Petrochemical and Marine applications, and for all kind of industry where an explosive atmosphere may be present. Thousands of Technor control boxes/stations are installed on- and offshore during the last years. If you should have a particular need our sales staff will be happy to advise on this.

General Specifications

Material	Acid resistant stainless steel SS316/GRP
IP Rating	IP66 according to IEC 60529
Temperature	T6–T4 T85°C–T135°C
Approvals	INERIS-03ATEX-0122
Standards	EN50014, EN50019, EN50018, EN50028, EN50281
Ex-Code	EEx e em II ed IIC emd IIC T6-T85°C to T4-T135°C
	Ⓔx II 2 GD
Marking	Ref. certificate

Parameters relating to the safety			
Rated Operational Characteristics **AC15; A 600** Ue= 600 V, Ie= 1,2 A or Ue= 240 V, Ie= 3 A or Ue= 120 V, Ie= 6 A **DC13; Q600** Ue= 600 V, Ie= 0,1 A or Ue= 250 V, Ie= 0,27 A or Ue= 125 V, Ie= 0,55 A Integral LED – 24V to 415V AC-DC	**Terminals**	Maximal Voltage	660V acc. to model
		Current density	-3,5A/mm² for terminal ≤ 10mm²
			-3A/mm² for 16mm² ≤ terminal ≤ 25mm²
			-2,8A/mm² for terminal ≤ 35mm² limit at 360A
	Lights with transformators:	Maximal voltage	500V/8V
		Maximal current	0,2A
		Maximal power of lamp	1,2W
		Led + Thermal diffuser 8V	0,6W
	Direct lights:	Maximal voltage	400V
		Maximal current	0,016A
		Maximal power of incandescent lamp	2W
		Maximal power of neon lamp	1,5W
		Led + Thermal diffuser 6 to 48V	0,6W
	Switches:	Maximal voltage	500V
		Maximal current	10A
	Ampere meters:	2 rates of current	1 and 5A In the two cases Ith=50In and Idyn=1,3 x 125In

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XAWFS Measurement Table							
Type	Width mm	Height mm	Depth mm	Weight kg	Dwg. ref	No of entries for control equipment	Part no:
XAWFS1	112	112	82	1,0	TN-65-6	0	TEAXAWFS1C*
						1	TEAXAWFS101
XAWFS2	112	152	82	1,2	TN-66-6	0	TEAXAWFS2C*
						1	TEAXAWFS201
						2	TEAXAWFS202
XAWFS3	112	197	82	1,4	TN-67-6	0	TEAXAWFS3C*
						2	TEAXAWFS302
						3	TEAXAWFS303
XAWFS4	112	242	82	1,6	TN-68-6	0	TEAXAWFS4C*
						3	TEAXAWFS403
						4	TEAXAWFS404
XAWFS5	112	297	82	1,9	TN-69-6	0	TEAXAWFS5C*
						4	TEAXAWFS504
						5	TEAXAWFS505
XAWFS6	112	332	82	2,1	TN-70-6	0	TEAXAWFS6C*
						4	TEAXAWFS605
						6	TEAXAWFS606

The boxes are delivered as standard with screws only in lid. * 0 = Empty enclosure

XAWG Measurement Table							
Type	Width mm	Height mm	Depth mm	Weight kg	Dwg. ref	No of entries for control equipment	Part no:
XAWG2	85	146	70	0,5	TN-71-6	0	TEAXAWG2C*
						1	TEAXAWG201
						2	TEAXAWG202
XAWG3	85	226	70	0,7	TN-72-6	0	TEAXAWG3C*
						3	TEAXAWG303
XAWG5	112	197	82	1,4	TN-67-6	0	TEAXAWG5C*
						4	TEAXAWG504
						5	TEAXAWG505

The boxes are delivered as standard with screws only in lid. * 0= Empty enclosure

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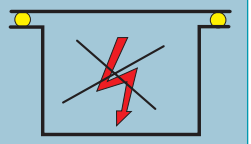
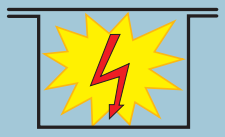
Hazardous area information & terminology

ATEX Directive

The ATEX Directive, derived from the French "ATmosphères EXplosibles" and formally known as 94/9/EC, contains the ESR (Essential Safety Requirements) to which electrical equipment and protective systems used within potentially explosive atmospheres must conform.

The new ATEX Directive currently in place within the European Union was made mandatory on 1st July 2003. Primarily intended for manufacturers of hazardous area equipment for use in the presence of flammable gases, vapours, fumes or dusts, the new directive requires a quality management system to be implemented.

Procedures for the design, manufacture and verification of products are to be approved by a notified body (i.e. DNV, NEMKO, etc.) and all equipment conforming to the new directive will feature CE and Ex Marking.

Applicable EX protection	
EEx e Protection for electrical components that do not spark under normal working conditions but where measures are applied to prevent high tempera-tures and the occurence of arcs and sparks internally.	
EEx d Protection Parts, which can ignite a potentially explosive atmosphere, are surrounded by an enclosure, which are designed to withstand the pressure of an internal explosion and to prevent the propaga-tion of the explosion to the atmosphere surrounding the enclosure.	

Zone Classification with the presence of DUST	
Zone 21	An area in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur in normal operation of the plant.
Zone 22	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation, if it does occur, will persist for a short period only.

Zone Classification with the presence of GAS	
Zone 1 (Category 2)	An area in which explosive gas is likely to be present during normal operation of the plant.
Zo ne 2 (Category 3)	An area in which explosive gas is not continuously present, but may exist for a short period of time.

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