



Harmony XAW ATEX D

Complete metal or plastic stations for explosive atmospheres



Harmony

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References

Modicon TM3
I/O expansion modules for Modicon controllers
Analog I/O modules

References	Input range	Output range	Resolution	Input terminal block (T)	Reference	Weight
2 voltage/current inputs	-15...+15 VDC 0...20 mA, 4...20 mA	15 000 mV 10 000 mV	12 bits 11 bits	0 580 02 0 580 02	TM3AI2H TM3AI2H	0.150 0.254
4 voltage/current inputs	-15...+15 VDC 0...20 mA, 4...20 mA	15 000 mV 11 000 mV	12 bits 11 bits	0 580 02 0 580 02	TM3AI4H TM3AI4H	0.250 0.250
4 voltage/current or temperature inputs (T)	-15...+15 VDC 0...20 mA, 4...20 mA	15 000 mV 11 000 mV	12 bits 11 bits	0 580 02 0 580 02	TM3AI4H TM3AI4H	0.250 0.250
4 differential temperature inputs (T)	-15...+15 VDC 0...20 mA, 4...20 mA	15 000 mV 11 000 mV	12 bits 11 bits	0 580 02 0 580 02	TM3AI4H TM3AI4H	0.250 0.250

Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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All products Industrial Automation and Control PLC, PAC and Distributed Controllers Distributed Input/Output (I/O) Modules Modicon TM3

TM3AI2H

Module TM3-2 analog inputs high resolution

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Related Software >

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Characteristics Documents and Downloads Technical FAQs Additional Information Dimensions Drawings >

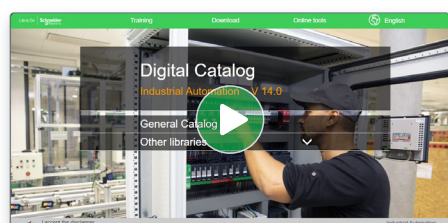
Main

range of product Modicon TM3

product or component type Analog input module

range compatibility Modicon M51
Modicon M21
Modicon M241

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Harmony XAW ATEX D

Complete metal or plastic stations for explosive atmospheres



Harmony XAW ATEX D
Complete metal or plastic stations for explosive atmospheres

Presentation

The Harmony® XAW ATEX D range of complete control stations equipped with Harmony XB4 ATEX D control and signaling units are designed for applications with explosive atmospheres. They are ideal for use in environments where the generation of possible ignition sources can be prevented and controlled.

This range meets the ATEX dust offer standard compliant with European Directive 2014/34/EU, Zone 21/22.

This range offers products with the following functions:

- Non-illuminated pushbuttons
- Selector and key switches
- Emergency stop functions

Explosive atmosphere and ignition sources

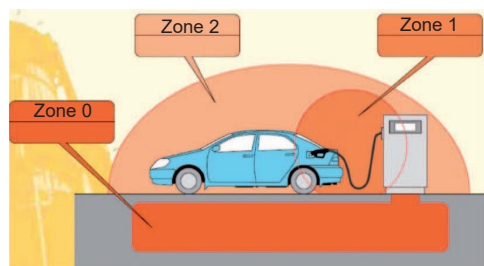
According to the directive, a potentially explosive atmosphere is the mixture of air with flammable substances in the form of dust that, when exposed to an ignition source under normal atmospheric conditions, can completely or partially catch fire and explode.

The types of ignition sources that can create an explosive atmosphere are:

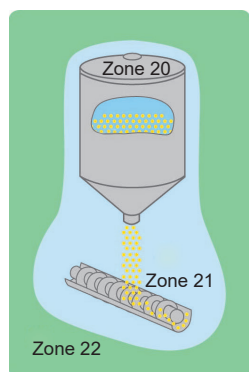
- Hot surfaces
- Flames and hot gases
- Mechanically produced sparks
- Electrical equipment
- Transient currents
- Static electricity
- Lightning strikes
- Electromagnetic waves
- Optical radiation
- Ultrasound
- Chemical reactions
- People (indirectly)

Explosive atmospheres are found in areas like:

- Metal surface grinding, especially aluminum dust and particles
- Oil refineries, rigs, and processing plants
- Gas pipelines and distribution centers
- Printing industries, paper, and textiles
- Aircraft refueling and hangars
- Chemical processing plants
- Grain handling and storage
- Sewage treatment plants
- Surface coating industries
- Underground coal mines
- Wood working areas
- Sugar refineries
- Vessels/ships
- Power plants



Example of hazardous gas and vapor zones



Example of hazardous dust zones

Explosive atmosphere IECEx zones and NEC 500 class and divisions

Explosive atmospheres are classified into the following categories and zones:

Category	Level of risk	IECEx/UL	NEC 500
Gas	High	Zone 0	Class 1 div 1
	Medium	Zone 1	Class 1 div 2
	Low	Zone 2	Class 2 div 1
Dust	High	Zone 20	Class 2 div 1
	Medium	Zone 21	Class 2 div 2
	Low	Zone 22	Class 3 (fibers)

Harmony XAW ATEX D

Complete metal or plastic stations for explosive atmospheres

Presentation (continued)

Explosive atmosphere certification

Equipment made for use in potentially hazardous areas is obliged to follow a dedicated procedure for testing and inspection. Following the results of this procedure, the XB4 explosive atmosphere range obtained the following certificates:

- ATEX dust offer
- ATEX certificate: 04ATEX9004U

Applications

- Industrial applications
- ☐ Food and beverage
- ☐ Oil and gas, including petrochemical extraction and transformation, gas stations, and gas bottling plants
- ☐ Chemicals
- ☐ Printing
- ☐ Paint manufacturing lines



Food & Beverage



Oil & Gas



Printing



Paint manufacturing

For more technical information, please refer to the [Harmony XAW ATEX D](#) offers page on the Schneider Electric website.

Harmony XAW ATEX D

Complete metal or plastic stations
for explosive atmospheres

Metal control stations XAWF ATEX Dust



XAWF100EX





XAWF178EX




XAWF130EX



XAWF310EX

Metal control stations								
Composition	Marking on legend	Base of enclosure and cover color	Dimensions (w x h x d) mm/in.	Type of connector		Cable gland (ISO standard)	Reference	Weight kg/lb
								
One function, start								
1 flush pushbutton, booted, spring return, green	I	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	1	–	M20 (x1)	XAWF100EX	0.830/ 1.830
One function, Emergency stop (1)								
1 mushroom head Ø 40 mm/1.575 in. pushbutton, trigger action, turn to release, red	-	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	–	2	M20 (x1)	XAWF178EX	0.830/ 1.830
1 mushroom head Ø 40 mm/1.575 in. pushbutton, trigger action, key release, red	-	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	–	2	M20 (x1)	XAWF188EX	0.830/ 1.830
1 mushroom head Ø 40 mm/1.575 in. pushbutton, trigger action, push-pull, red	-	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	–	2	M20 (x1)	XAWF198EX	0.830/ 1.830
Two functions, start and stop								
1 selector switch with standard handle, 2-position stay-put	O - I	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	1	1	M20 (x1)	XAWF130EX	0.856/ 1.887
1 flush pushbutton, booted, spring return, green	O	Black	80 x 130 x 77/ 3.15 x 5.12 x 3.03	1	1	M20 (x1)	XAWF210EX	1.135/ 2.502
1 flush pushbutton, booted, spring return, red	I							
Three functions, start and stop								
1 flush pushbutton, booted, spring return, green	I	Black	80 x 175 x 77/ 3.15 x 6.89 x 3.03	1	–	M20 (x1)	XAWF310EX	1.545/ 3.406
1 flush pushbutton, booted, spring return, red	O			–	1			
1 flush pushbutton, booted, spring return, black	II			1	–			

(1) Conformity to standards EN/IEC 60204-1, EN/ISO 13850, and EN/IEC 60947-5-5 and to Machinery Directive 2006/42/CE. For compliance with standard EN/ISO 13850, paragraph 4.4.6, the Emergency stop function logo  has been added.

Harmony XAW ATEX D


Complete metal or plastic stations

for explosive atmospheres

Plastic control stations XAWG ATEX Dust

Plastic control stations

Composition	Marking on legend	Base of enclosure and cover color	Dimensions (w x h x d) mm/in.	Type of connector		Cable gland (ISO standard)	Reference	Weight kg/lb
				NO	NC			
One function, start								
1 flush pushbutton, booted, spring return, green	I	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	1	–	M20 (x1)	XAWG100EX	0.830/ 1.830
One function, Emergency stop (1)								
1 mushroom head Ø 40 mm/1.575 in. pushbutton, trigger action, turn to release, red	–	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	–	2	M20 (x1)	XAWG178EX	0.830/ 1.830
1 mushroom head Ø 40 mm/1.575 in. pushbutton, trigger action, key release, red	–	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	–	2	M20 (x1)	XAWG188EX	0.830/ 1.830
1 mushroom head Ø 40 mm/1.575 in. pushbutton, trigger action, push-pull, red	–	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	–	2	M20 (x1)	XAWG198EX	0.830/ 1.830
Two functions, start and stop								
1 selector switch with standard handle, 2-position stay-put	O - I	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	1	1	M20 (x1)	XAWG130EX	0.856/ 1.887
1 flush pushbutton, booted, spring return, green	I	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	1	1	M20 (x1)	XAWG210EX	1.135/ 2.502
1 flush pushbutton, booted, spring return, red	O							
Three functions, start and stop								
1 flush pushbutton, booted, spring return, green	I	Black	85 x 70 x 226/ 3.35 x 2.75 x 8.90	1	–	M20 (x1)	XAWG310EX	1.545/ 3.406
1 flush pushbutton, booted, spring return, red	O			–	1			
1 flush pushbutton, booted, spring return, black	II			1	–			

(1) Conformity to standards EN/IEC 60204-1, EN/ISO 13850, and EN/IEC 60947-5-5 and to Machinery Directive 2006/42/CE. For compliance with standard EN/ISO 13850, paragraph 4.4.6, the Emergency stop function logo  has been added.

XAW_CP20642



XAWG100EX

XAW_CP20644



XAWG178EX

XAW_CP20647B



XAWG130EX

XAW_CP20650



XAWG310EX

X	
XAWF100EX	4
XAWF130EX	4
XAWF178EX	4
XAWF188EX	4
XAWF198EX	4
XAWF210EX	4
XAWF310EX	4
XAWG100EX	5
XAWG130EX	5
XAWG178EX	5
XAWG188EX	5
XAWG198EX	5
XAWG210EX	5
XAWG310EX	5

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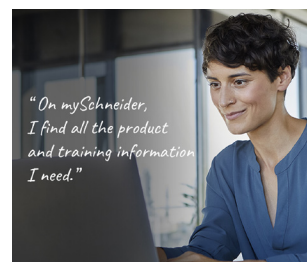
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