



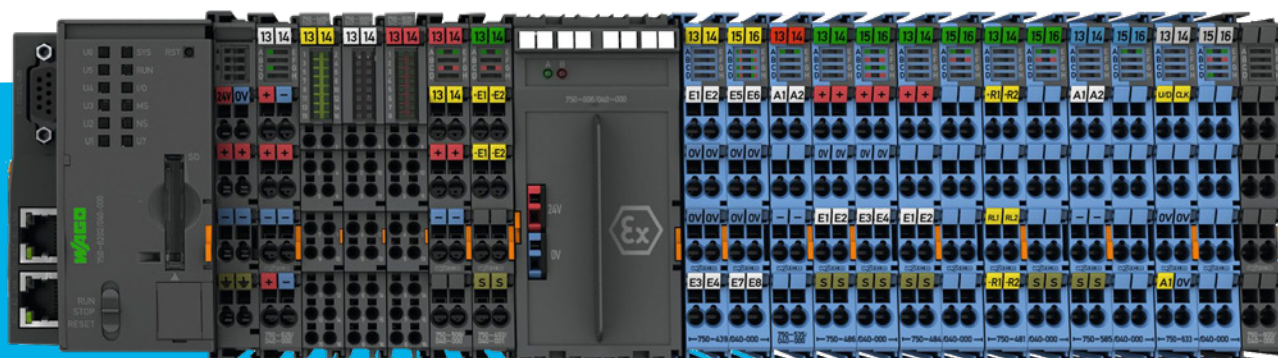
# WAGO I/O System 750

Explosion Protection via Intrinsic Safety





**WAGO I/O System 750 XTR**  
Operation range: -40 ... +70°C  
(e.g., oil and gas production)



# Use in Hazardous Locations

## Fieldbus-Independent I/O for Hazardous Areas

In many plants across the chemical and petrochemical industries, as well as in the production and process automation sectors, installations are operated that process explosive gas- or dust-air mixtures. This is why electrical equipment must be explosion-proof in order to avoid injuries to personnel and damage to facilities.

The "blue" Ex i Modules from the WAGO I/O-System 750 and the WAGO I/O System 750 XTR are designed for intrinsically safe applications in hazardous locations, providing users with all the benefits of modern fieldbus technology in a standard node. When installed in Zone 2/22, the system provides a safe, easy and cost-effective connection to the sensors and actuators of Zones 0/20 and 1/21. It is ready for worldwide use

thanks to Ex approvals (e.g., IECEx, as well as ABS, DNV, GL for marine applications).

## Globally approved for:

- mining environments
- explosive gas environments
- explosive dust environments
- onshore/offshore environments (e.g., gas tankers, oil/gas pipelines)

## WAGO I/O System 750

Operation range: 0 ... +55°C (e.g., process plant)

ATEX  
2014/34/EU



NAMUR



HART



ZONE 2/22

ZONE 1/21

ZONE 0/20



# Use in a Variety of Applications



## Rupture Disc with Pressure Switch per NAMUR

Whether rupture disk feedback and the end position of the valve are from a NAMUR make or break contact, WAGO's compact 8-Channel Input Modules adhere to the NAMUR recommendation, making them the right choice for every application.



## Level Measurement 4 ... 20 mA

Simple, safe and compact. Whether it's a level, temperature or pressure transmitter, the AI Modules (4 ... 20 mA) are the backbone of WAGO's extremely compact and versatile remote I/O System.

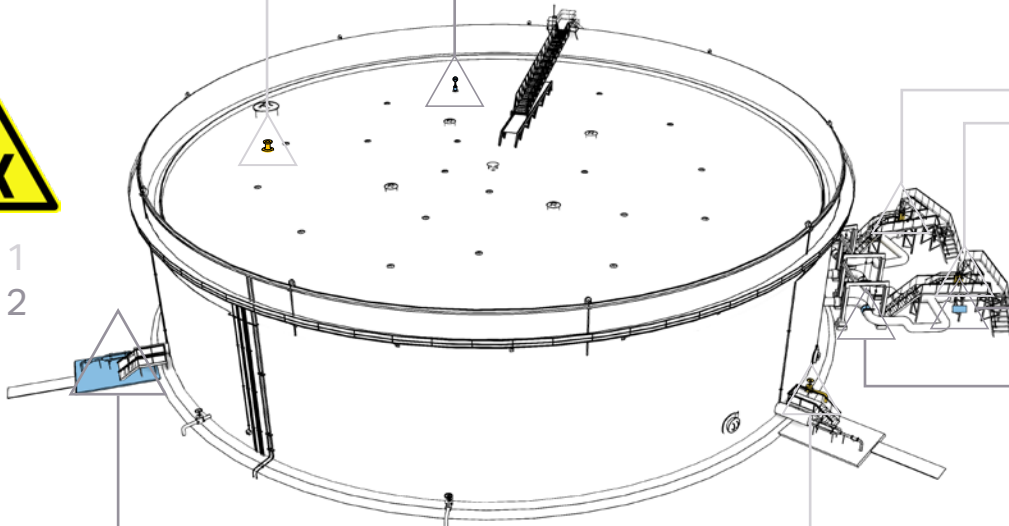


## Control Valve 4 ... 20 mA

Specify the position – control valves and related I/P converters can be easily controlled via WAGO's intrinsically safe 4 ... 20 mA AO Modules.



Zone 1  
Zone 2



## Flow Measurement (HART) 4 ... 20 mA

In addition to mass flow, WAGO's HART AI Modules can read up to four auxiliary variables in parallel (e.g., temperature, viscosity).



## Valve Interface

Control valves via WAGO's intrinsically safe and short-circuit proof DO Modules for solenoid valve control and benefit from the advantages of modern fieldbus technology.



## Pt100 Resistance Thermometer

Directly integrate both thermocouples and resistance sensors via WAGO's intrinsically safe AI Modules in low-interference environments – no head transmitter required.

# Overview on Intrinsically Safe Modules



## PD Meter via Counter Module

Easily connect and evaluate the pulse outputs of oval gear counters per DIN EN 60947-5-6 (NAMUR) via WAGO's intrinsically safe Counter Modules.



## Power Supplies for Zone 2

The perfect addition to WAGO's remote I/O System for use in Zone 2 (Class 1, Div. 2: WAGO ECO Power Supplies (2.5/5 and 10 A)

## Supply Module

24 VDC 1.0 A Ex i, 750-606\*



## Digital Inputs

1DI NAMUR Ex i, 750-435  
2DI NAMUR Ex i, 750-438  
8DI NAMUR Ex i, 750-439\*  
4F-Ex i DI 24 V PROFIsafe V2 iPar,  
750-663/000-003

## Digital Outputs

2DO 24 VDC Ex i, 750-535\*  
2DO Relay Ex i, 750-538  
4DO 24 VDC Valve Ex i, 750-539

## Analog Inputs

2AI 4 ... 20 mA HART Ex i, 750-484\*  
2AI 4 ... 20 mA Ex i, 750-485  
4AI 0/4...20 mA Ex i, 750-486 \*  
4AI RTD/TC Ex i, 750-489

## Analog Outputs

2AO 0 ... 20 mA Ex i, 750-585\*  
2AO 4 ... 20 mA Ex i, 750-586

## NAMUR Counters

Up/Down Counter Ex i, 750-633\*

## ECO Power Supplies

24 VDC (22 ... 28 V) / 2.5 A, 787-712  
24 VDC (22 ... 28 V) / 5 A, 787-722  
24 VDC (22 ... 28 V) / 10 A, 787-732

\* Available as the XTR version (.../040-000)



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