

TAKING IT TO THE **EXTREME**, 750 XTR

THE WAGO-I/O-SYSTEM FOR **EXTREME** APPLICATIONS



**WAGO**®

Sold & Serviced By:

 **ELECTROMATE**

Toll Free Phone (877) SERV098

Toll Free Fax (877) SERV099

[www.electromate.com](http://www.electromate.com)

[sales@electromate.com](mailto:sales@electromate.com)





## What's Available:

- PLC's for stand-alone or distributed control
- Bus Couplers for distributed I/O
- Digital, analog and special function I/O modules

## System Hardware

The most compact, modular fieldbus independent I/O system for standalone and decentralized automation systems, the WAGO I/O-SYSTEM 750 XTR can operate in extreme temperatures, is vibration resistant, and immune to interference. These features make 750 XTR an excellent choice for demanding applications.

The 750 XTR series has a wide offering of modules providing users with the flexibility to design automation architectures for specific harsh environment applications. WAGO's 750 XTR high speed PLCs can be used for standalone applications. XTR couplers can be used for distributed I/O applications with a central controller. The 750 XTR Series includes digital and analog I/O plus specialty modules for communication and power filtering/distribution.

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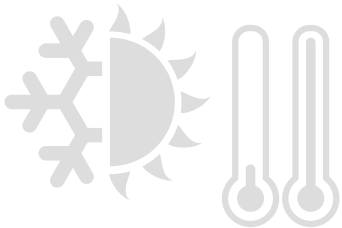
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eXTReme Temperature  
...from -40°C to +70°C



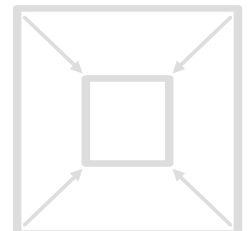
eXTReme Vibration  
...up to 5G Acceleration



eXTReme Isolation  
...up to 5kV Impulse



XTReme Size  
...up to 5x Smaller



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## General Technical Data

### Approvals and Standards

- CE
- UL508 (pending)
- ANSI 12.12.1 Class 1, Division 2 hazardous location (pending)
- GL marine approval
- ABS, DNV, KR marine approvals (pending)

### Temperature

- -40°C to +70°C operating temperature
- -40°C to +85°C storage temperature

### Condensation

- Withstands short term condensation per Class 3K7/IEC EN 60721-3-3 (Except wind-driven precipitation and ice formation)

### Vibration

- Acceleration 5g

### Shock

- 15g, 11ms, 1000 shocks per axis, half sine
- 25g, 6ms, 1000 shocks per axis, half sine

### Isolation

- 24V modules: 500VAC/775VDC, 1.0 KV impulse voltage
- 230V modules: 2,500VAC/3,500VDC, 5,000V impulse voltage

### Surge voltage

- 1kV (Conductor/Conductor)
- 2kV (Conductor/Ground)

### Altitude

- < 6,500 ft without de-rating, over-voltage category III
- 6,500 ft to 9,800 ft max operating temp. 65°C, over-voltage category III
- 9,800 to 13,000 ft max operating temp. 60°C, over-voltage category III
- 13,000 ft to 16,000 ft max operating temp. 55°C, over-voltage category III
- 16,000 ft to 26,000 ft max operating temp. 40°C, over-voltage category II

- **eXTReme environment I/O-SYSTEM**
- **No air conditioning required**
- **For use in high vibration applications**

## System Software

### WAGO-I/O-PRO

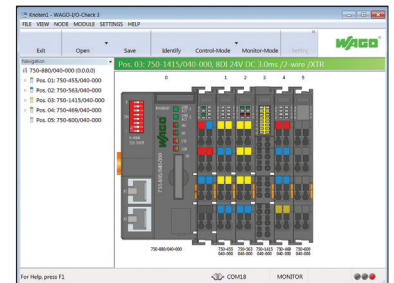
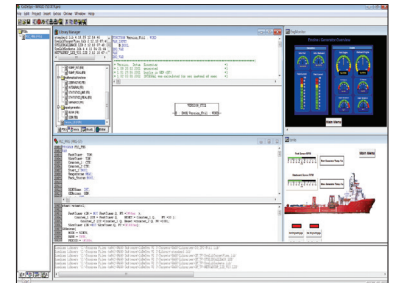
WAGO-I/O-PRO is a feature rich programming and visualization tool, allowing users to develop PLC applications for the WAGO-I/O-SYSTEM 750 XTR programmable logic controllers. WAGO-I/O-PRO conforms to the IEC 61131-3 programming standard, supporting 5 languages.

- Ladder diagram
- Functional block diagram
- Structured text
- Sequential function chart
- Instruction list

WAGO-I/O-PRO is sold as a site license with free local and phone support.

### WAGO-I/O-CHECK

WAGO-I/O-CHECK is a PC based application used for monitoring inputs or forcing outputs of 750 series nodes, speeding commissioning time. The software is also used for configuration of advanced I/O modules making start-ups straight forward and easy.



# WAGO-I/O-SYSTEM 750 XTR Overview

Programmable Logic Controllers	
750-880/040-000*	ETHERNET Controller / XTR
750-880/040-001*	ETHERNET Telecontroller / XTR
750-838/040-000	CANopen Controller 640/832KB DSUB / XTR
Bus Couplers	
750-352/040-000	ETHERNET Coupler / XTR
750-333/040-000	PROFIBUS Coupler DP/V1 / XTR
750-338/040-000	CANopen Coupler DSUB / XTR
Digital Inputs and Outputs	
750-1405/040-000	16 DI 24 VDC 3.0 ms / XTR
750-1415/040-000	8 DI VDC 3.0 ms / 2-wire / XTR
750-508/040-000	2 DO 24 VDC 2.0 A / Diagnostics / XTR
750-1515/040-000	8 DO 24 VDC 0.5 A / 2-wire / XTR
750-407/040-000	2 DI 220 VDC 3.0 ms / XTR
750-517/040-000	2 DO 230 VAC 1.0 A / Relay 2CO / XTR
Analog Inputs and Outputs	
750-468/040-000	4 AI 0 - 10 VDC S.E. / XTR
750-457/040-000	4 AI ±10 VDC S.E. / XTR
750-453/040-000	4 AI 0 - 20 mA S.E. / XTR
750-455/040-000	4 AI 0 - 20 mA S.E. / XTR
750-464/040-000	2/4 AI RTD configurable / XTR
750-469/040-000	2 AI Thermocouple configurable / XTR
750-559/040-000	4 AO 0 - 10 VDC / XTR
750-557/040-000	4 AO ±10 VDC / XTR
750-563/040-000	2 AO 0/4 - 20 mA / 6 - 18 VDC / 16 Bit / XTR
Communication, Supply and Segment Modules	
750-652/040-000	Serial Interface RS - 232 / RS - 485 / XTR
750-602/040-000	24 VDC Power Supply / XTR
750-624/040-001	24 VDC Field Supply Filter / HI / XTR
750-613/040-000	24 VDC Power Supply (Bus) / XTR
750-626/040-000	24 VDC Supply Filter (Surge) / HI / XTR
750-612/040-000	0 - 230 V AC/DC Power Supply / XTR
750-1605/040-000	Potential Multiplication 16+ / XTR
750-1606/040-000	Potential Multiplication 16- / XTR
750-600/040-000	End Module / XTR
Software	
759-333/000-00923	WAGO-I/O-PRO Software w/ USB cable
759-911	WAGO-I/O-PRO Software
759-302/000-923	WAGO-I/O-CHECK Software w/ USB cable
759-920	WAGO-I/O-CHECK Software



750-880/040-000



750-1405/040-000



750-457/040-000



750-652/040-000



## \* Supports WAGO WebVisu Application

WAGO's Web Visualization application is a convenient mobile application that enables quick and easy access to equipment status, process data and production levels at the swipe of a finger. This free app is available for both iOS and Android devices.

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