TAKING IT TO THE eXTReme

The WAGO-I/O-SYSTEM for eXTReme Applications

eXTReme Temperature
...from -40 °C to +70 °C
(-40 °F to +158 °F)

eXTReme Vibration
...up to 5G Acceleration

eXTReme Isolation
...up to 5kV Impulse

eXTReme Size
...up to 5x Smaller

TAKING IT TO THE EXTREME, 750 XTR

THE WAGO-I/O-SYSTEM FOR EXTREME APPLICATIONS

SYSTEM HARDWARE

The most compact, modular fieldbus independent I/O system for stand-alone 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 stand-alone 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.

WHAT'S AVAILABLE:

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

WAGO-I/O-SYSTEM 750 XTR

TECHNICAL DATA & SYSTEM SOFTWARE

APPROVALS AND STANDARDS

APPROVALS AND STANDARDS

- CE
- UL508
- ANSI 12.12.1 Class 1, Div. 2 haz loc
- GL and DNV Marine approvals
- Railway EN50155

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)

SHOCK

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

ISOLATION

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

SURGE VOLTAGE

- 1k V (conductor/conductor)
- 2k V (conductor/ground)

VIBRATION

- Acceleration 5 g

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 ft 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 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

*e!*COCKPIT BASED ON CODESYS 3

e!COCKPIT is an integrated development environment that supports every automation task from hardware configuration, programming, simulation and visualization up to commissioning – all-in-one software package for PFC200 Controllers. Completely reimagined, this development environment enables users to easily master complex automation networks, saving both time and money.

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
750-8202/040-000**	PFC200 Ethernet, Serial /XTR
750-8202/040-001**	PFC200 SMARTGrid, Ethernet, Serial /XTR
750-8206/040-000**	PFC200 Ethernet, CAN, Serial, PROFIBUS/XTR
750-8206/040-001**	PFC200 SMARTGrid, Ethernet, CAN, Serial, PROFIBUS/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 24 VDC 3.0 ms / 2-wire / XTR
750-1416/040-000	8 DI 24 VDC 0.2ms / 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
750-427/040-000	2 DI 110 VDC 3.0ms /XTR
750-429/040-001	2 DI 60 VDC 3.0ms /XTR
ANALOG INPUTS AND OUTPUTS	
750-495/040-000	3-phase Power Measurement 690V /1A/XTR
750-495/040-001	3-phase Power Measurement 690V/5A/XTR
750-495/040-002	3-phase Power Measurement 690V/R.C./XTR
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 4 - 20 mA S.E. / XTR
750-464/040-000	2/4 AI RTD configurable / XTR
750-469/040-000	2 AI Thermocouple configurable / XTR
750-492/040-001	2 AI 4-20ma Differential NE43 /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 VAC/VDC Power Supply / XTR
750-1605/040-000	Potential Multiplication 16+ / XTR
750-1606/040-000	Potential Multiplication 16- / XTR
750-616/040-000	Spacer Module
750-600/040-000	End Module / XTR

*** SUPPORTS WAGO WEBVISU APPLICATION**

**** SUPPORTS HTML5 WEB VISUALIZATIONS BUILT-IN FIREWALL**

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.

750-880/040-000

750-652/040-000

750-457/040-000

750-1405/040-000

WE INNOVATE!

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