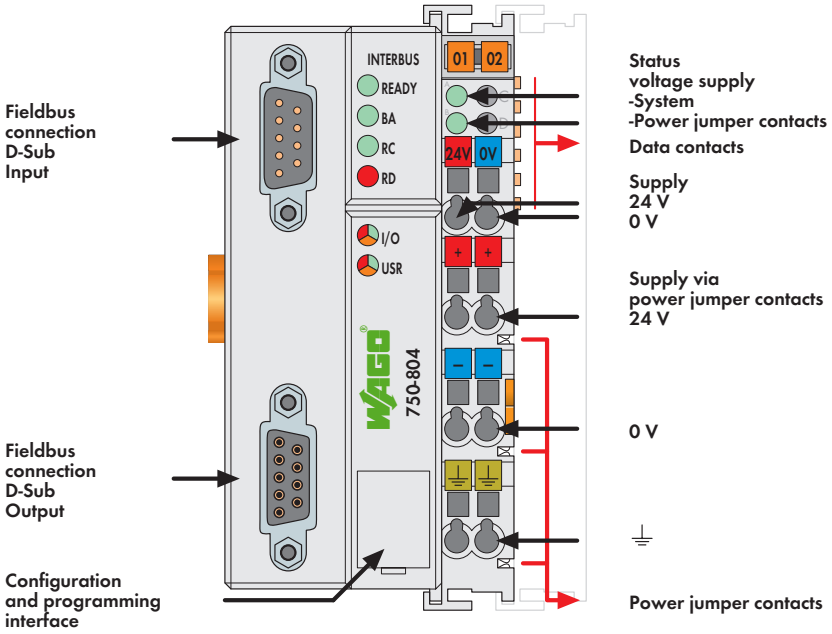
INTERBUS Programmable Fieldbus Controller

500 Kbaud; digital and analog signals



The programmable fieldbus controller for INTERBUS is an expansion of the WAGO-I/O-SYSTEM.

This controller combines the WAGO fieldbus coupler for INTERBUS with the functionality of a PLC. Programming of the application is performed in accordance with IEC 61131-3, covering all 5 programming languages. The programmer can access all fieldbus and I/O data.

Characteristics and use:

- The use of decentralized control can better support a PLC or PC
- Complex applications can be divided into multiple tasks
- Programmable response in the event of a fieldbus failure
- Signal pre-processing reduces fieldbus transmissions
- Peripheral equipment can be controlled directly, resulting in faster system response times
- Simple, self-sufficient control

Description	Item No.	Pack. Unit
Contr. INTERBUS	**750-804**	1

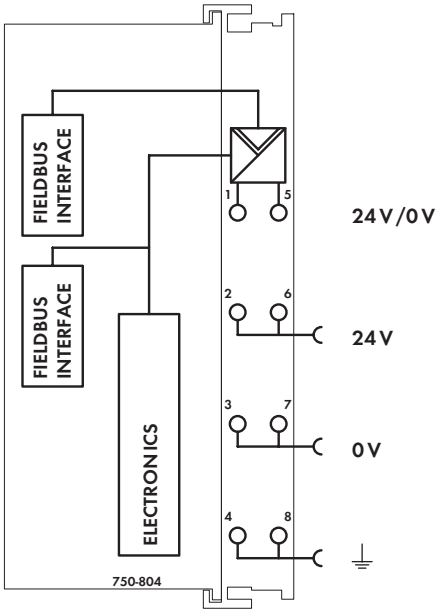
Accessories		Item No.	Pack. Unit
INTERBUS files		Download: www.wago.com	
Miniature WSB Quick marking system			
	plain	**248-501**	5
	with marking	see pages 304 ... 305	

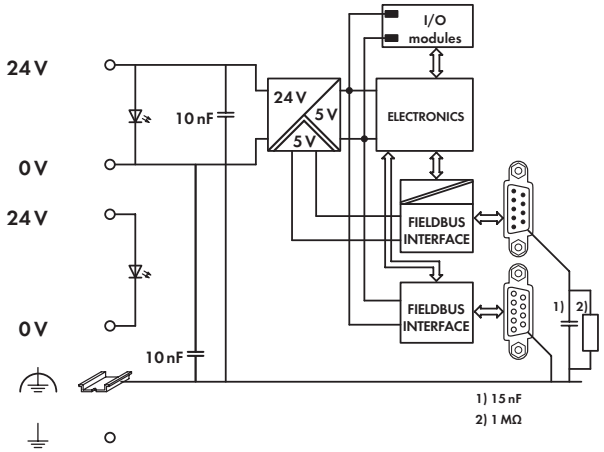
Standards and Approvals

Standard	EN 50254
Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
EN 60079-15	I M2 / II 3 GD Ex nA IIC T4
	BR-Ex nA II T4

System Data

No. of controllers connected to Master	256
Max. no. of I/O points	4096 (depends on master)
Transmission medium	Certified Cu cable
Max. length of fieldbus segment	400 m
Baud rate	500 Kbaud
Transmission time	typ. 1.43 ms (10 couplers; 32 digital I/Os per coupler)
Buscoupler connection	1 x D-Sub 9; plug for input interface 1 x D-Sub 9; socket for output interface
Programming	WAGO-I/O-PRO 32
IEC 61131-3	IL, LD, FBD, ST, FC





Technical Data

Number of I/O modules	64
Fieldbus	
Max. input process image	64 bytes
Max. output process image	64 bytes
Max. input variables	64 bytes
Max. output variables	64 bytes
Configuration	automatic
Program memory	128 Kbytes
Data memory	64 Kbytes
Non-volatile memory (retain)	8 Kbytes
Cycle time	< 3 ms for 1,000 statements / 256 dig. I/Os
Voltage supply	24 V DC (-15 % ... +20 %)
Max. input current (24 V)	500 mA
Efficiency of the power supply	87 %
Internal current consumption (5 V)	400 mA
Total current for I/O modules (5 V)	1600 mA
Isolation	500 V system/supply
Voltage via power jumper contacts	24 V DC (-15 % ... +20 %)
Current via power jumper contacts (max.)	10 A DC

General Specifications

Operating temperature	0 °C ... +55 °C
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Dimensions (mm) W x H x L	51 x 65 x 100
	Height from upper-edge of DIN 35 rail
Weight	200 g
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Vibration resistance	acc. to IEC 60068-2-6
Shock resistance	acc. to IEC 60068-2-27
Degree of protection	IP20
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2007)