

**Data sheet | Item number: 750-632****Proportional valve module**[www.wago.com/750-632](http://www.wago.com/750-632)**Item description**

The 750-632 Proportional Valve Module controls two single-coil valves with up to 24 V/1.6 A or one valve with up to 24 V/2 A. The module features two current-controlled PWM\* outputs with adjustable dithering.

Both unipolar and bipolar valve control are possible. Additionally, operation of a valve with two unipolar coils is also provided. The module is single-channel in this operating mode! Characteristic curve adaptations, such as zero offset, dual gain compensation or range limitations, can be adjusted via parameters.

Scaling and configurable up/down ramps permit set point adjustment to the application. For example, monitoring threshold value switches is performed via two additional digital inputs. Start-up and valve parameters adjustment are performed via WAGO-I/O-CHECK software or the controller.

\*PWM = Pulse width modulation

**Data****Technical data**

Number of digital inputs	2
Number of outputs	2 bipolar outputs (A+, A- and B+, B-)
Output type	H-bridge output with current-regulated PWM output (short-circuit-proof and thermal overload-proof for each channel)
Input characteristic	high-side switching
Input characteristic	Type 1
Input current (typ.)	2.7 mA at 24 V
Output current	1-channel operation: 2 A; 2-channel operation: 1.6 A per channel
Load type	Operating range: inductive (1 mH ... 600 mH); Internal load resistance (> 8 Ohm)
PWM frequency (typ.)	50 kHz
Data width	6 bytes: single-channel operating mode; 12 bytes: dual-channel operating mode
Supply voltage (system)	5 VDC; via data contacts
Power consumption (5 V system supply)	125 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Power consumption, field supply (module with no external load)	20 mA
Isolation	500 V system/field

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG  
 Hansastr. 27  
 32423 Minden  
 Phone: +49571 887-0 | Fax: +49571 887-169  
 Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
 We are always happy to take your call at 01788 568 008.

**Data sheet | Item number: 750-632**[www.wago.com/750-632](http://www.wago.com/750-632)

Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2

**Connection data**

Connection technology: inputs/outputs	16 x Push-in CAGE CLAMP®
Connection type (1)	Inputs/Outputs
Solid conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG
Fine-stranded conductor	0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Connection requirement, permissible cable length	30 m
Connection requirement (permissible cable type)	Outputs
Conductor type 1	f-st
Conductor type 2	s
Conductor type (1)	fine-stranded
Conductor type 2	solid
Note (conductor cross-section)	Coil connections A+/A-/B+/B-: 1.5 mm <sup>2</sup> /16 AWG; For use according to UL 508: 16 AWG for all connections

**Physical data**

Width	12 mm / 0.472 inch
Height	100 mm / 3.937 inch
Depth	69 mm / 2.717 inch
Depth from upper edge of DIN-rail	61.8 mm / 2.433 inch

**Mechanical data**

Mounting type	DIN-35 rail
---------------	-------------

**Material data**

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	0.824 MJ
Weight	54.4 g
Conformity marking	CE

**Environmental requirements**

Surrounding air temperature (operation)	0 ... 55 °C
---	-------------

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG  
 Hansastr. 27  
 32423 Minden  
 Phone: +49571 887-0 | Fax: +49571 887-169  
 Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
 We are always happy to take your call at 01788 568 008.

## Data sheet | Item number: 750-632

[www.wago.com/750-632](http://www.wago.com/750-632)

Surrounding air temperature (storage)	-40 ... 85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 ... 2000 m
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %	25 ppm

## Approvals / Certificates

## Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ATEX</b> TUEV Nord Cert GmbH	EN 60079-0	TUEV_14_ATEX_148929_X (II 3 G Ex ex IIC T4 Gc)
	<b>CCCEX</b> CQST/CNEX	CNCA-C23-01	2020312310000213 (Ex nA IIC T4 Gc)
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02.B. 00163/19 (2Ex e IIC T4 Gc X)
	<b>IECEX</b> TUEV Nord Cert GmbH	IEC 60079-0	IECEX_TUN_14.0035_X (Ex ec IIC T4 Gc)
	<b>UL</b> Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

Subject to changes. Please also observe the further product documentation!



WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.






## Data sheet | Item number: 750-632

[www.wago.com/750-632](http://www.wago.com/750-632)

## Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087 /19
	<b>KC</b> National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-PVM750

## Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19-HG1821926
	<b>BV</b> Bureau Veritas S.A.	Rules for class. of Steel Ships	66711/A0
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAA0000194
	<b>KR</b> Korean Register of Shipping	-	KR HMB05880-AC001
	<b>PRS</b> Polski Rejestr Statków	-	TE/2236 /880590/19
	<b>RINA</b> RINA Germany GmbH	-	ELE066419XG

## UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.

Data sheet | Item number: 750-632

[www.wago.com/750-632](http://www.wago.com/750-632)



---

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.



**SCATTERGOOD  
& JOHNSON LTD**  
ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

Est.1899

At Scattergood & Johnson Ltd, we pride ourselves on being a technical distributor to specialist industries.

Working with a range of quality product manufacturers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

Backing up this technical ability is a range of 50,000+ products available from stock for nationwide next day delivery (same day if required!), or you can collect what you need from any of our trade counters around the UK.

Select your specialist interest below to learn more about how we can help.



Online, In Branch and On the Road - Scattergood & Johnson Ltd, there when you need us.

**[www.scatts.co.uk](http://www.scatts.co.uk)**