

### Type 7520 Terminal Box for Pneumatic Control Valves

#### Application

Valve accessory to connect a master cable to pneumatic control valves

The terminal box designed to fit Type 3271 and Type 3277 Pneumatic Actuators provides a central location to bundle sensor and actuator cables and to connect them to a multi-core master cable.

For actuators:

- Type 3277, 350 cm<sup>2</sup> and larger
- Type 3271, 350 cm<sup>2</sup> and larger

#### Special features

- Designed for use with Type 3271 and Type 3277 Pneumatic Actuators
- Overall electrical wiring plan for the valve assembly and all mounted accessories provides a clear overview
- Advance planning of the reserved cores in the common cable saves time
- Easy to add further sensors and final control elements: reserved cores can be planned in advance.
- On-site bundling of sensor and actuator cables in close proximity
- Easy to wire in the terminal box, e.g. several NC contacts in series
- Ready-installed PVC cables between the terminal box and valve
- Suitable for use in hazardous areas

#### Accessories and options

- Sheet steel terminal boxes in other RAL colors
- Nickel-plated brass or stainless steel cable glands
- Number and size of cable glands as required
- Terminal box made of stainless steel 1.4301 (AISI 304 or plastic)
- Shielded cables
- Other cable types available
- Explosion-protected version (Ex ia, Ex e)



Fig. 1: Typical mounting of Type 7520-03 Terminal Box

### Type 7520-01 Terminal Box

**Terminal box with cover** · For mounting on SAMSON actuators · Dimensions 150x150x80 mm (WxHxD) · Rugged sheet steel enclosure · Cover with polyurethane foamed seal · Grounding conductor terminal inside enclosure including miniature camlocks · Exterior surface with RAL 7035 structured, powder-coated finish · Mounting bracket to mount box on actuator · Grounding conductor ready-wired for connection

Terminal box including:

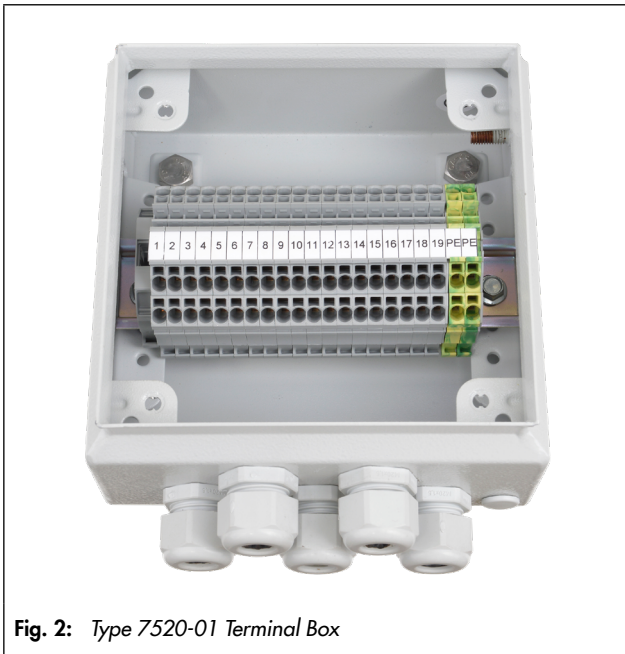
- 1x 35 mm rail
- WAGO Series 2002 clamps
- 2.5 mm<sup>2</sup> gray, blue, green/yellow as required
- 6 mm end stop, label holder and terminal label
- 5x M20 through holes (including cable gland and lock nut)
- Black or light gray cable glands (6 to 12 mm clamping range)
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 66
- Operating temperature: -15 to +40 °C

### Type 7520-02 Terminal Box

**Terminal box with cover** · For mounting on SAMSON actuators · Dimensions 200x200x80 mm (WxHxD) · Rugged sheet steel enclosure · Cover with polyurethane foamed seal · Grounding conductor terminal inside enclosure including miniature camlocks · Exterior surface with RAL 7035 structured, powder-coated finish · Mounting bracket to mount box on actuator · Grounding conductor ready-wired for connection

Terminal box including:

- 1x 35 mm rail
- WAGO Series 2002 clamps
- 2.5 mm<sup>2</sup> gray, blue, green/yellow as required
- 6 mm end stop, label holder and terminal label
- 7x M20 through holes (including cable gland and lock nut)
- Black or light gray cable glands (6 to 12 mm clamping range)
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 66
- Operating temperature: -15 to +40 °C



**Fig. 2:** Type 7520-01 Terminal Box

### Type 7520-03 Terminal Box

**Stainless steel terminal box with cover** · For mounting on SAMSON actuators · Stainless steel enclosure 150x150x80 mm (WxHxD) with 1.25 mm wall thickness · 1.25 mm thick stainless steel cover, resting on special foam seal · Grounding conductor terminal inside enclosure including quick fastener · Ready-fitted mounting bracket to mount box on actuator · Grounding conductor ready-wired for connection

Terminal box including:

- 1x 35 mm rail
- WAGO Series 2002 clamps
- 2.5 mm<sup>2</sup> gray, blue, green/yellow as required
- 6 mm end stop, label holder and terminal label
- 5x M20 through holes (including cable gland and lock nut)
- Black or light gray cable glands (6 to 12 mm clamping range)
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 66
- Operating temperature: -15 to +40 °C

### Type 7520-04 Terminal Box

**Stainless steel terminal box with cover** · For mounting on SAMSON actuators · Stainless steel enclosure 200x200x80 mm (WxHxD) with 1.25 mm wall thickness · 1.25 mm thick stainless steel cover, resting on special foam seal · Grounding conductor terminal inside enclosure including quick fastener · Ready-fitted mounting bracket to mount box on actuator · Grounding conductor ready-wired for connection

Terminal box including:

- 1x 35 mm rail
- WAGO Series 2002 clamps
- 2.5 mm<sup>2</sup> gray, blue, green/yellow as required
- 6 mm end stop, label holder and terminal label
- 7x M20 through holes (including cable gland and lock nut)
- Black or light gray cable glands (6 to 12 mm clamping range)
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 66
- Operating temperature: -15 to +40 °C

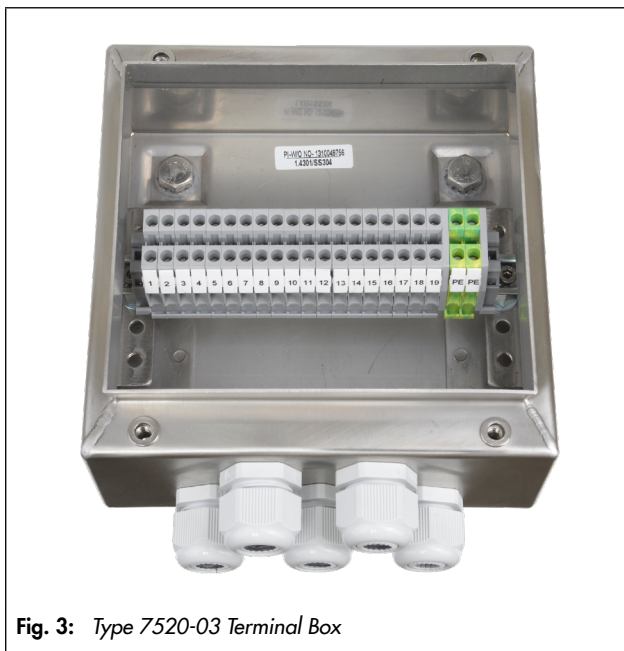


Fig. 3: Type 7520-03 Terminal Box

### Type 7520-05 Terminal Box

**Stainless steel Ex terminal box with cover** · For mounting on SAMSON actuators · Approval: Ex II2G Ex ia IIC T6 Gb · Terminal box dimensions 150x150x81 mm (WxHxD) · 1.25 mm thick stainless steel (1.4404) cover and enclosure with silicone seal and external grounding conductor terminal · Ready-fitted mounting bracket to mount box on actuator · Grounding conductor ready-wired for connection

Terminal box including:

- 1x 35 mm rail
- Max. 21x terminals (2.5 mm<sup>2</sup> gray, blue, green/yellow as required)
- End stop and terminal label
- 5x M20 through holes including blue polyamide Ex cable gland and lock nut (7 to 12 mm clamping range)
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 66
- Operating temperature: -20 to +40 °C

### Type 7520-06 Terminal Box

**Stainless steel Ex terminal box with cover** · For mounting on SAMSON actuators · Approval: Ex II2G Ex ia IIC T6 Gb · Terminal box dimensions 200x200x81 mm (WxHxD) · 1.25 mm thick stainless steel (1.4404) cover and enclosure with silicone seal and external grounding conductor terminal · Ready-fitted mounting bracket to mount box on actuator · Grounding conductor ready-wired for connection

Terminal box including:

- 1x 35 mm rail
- Max. 21x terminals (2.5 mm<sup>2</sup> gray, blue, green/yellow as required)
- End stop and terminal label
- 7x M20 through holes including blue polyamide Ex cable gland and lock nut (7 to 12 mm clamping range)
- 1x M20 through hole including black polyamide Ex screw plug
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 66
- Operating temperature: -20 to +40 °C

### Type 7520-07 Terminal Box

**Polycarbonate terminal box** 80x120x85 mm (WxHxD) ·  
Ready-fitted mounting bracket to mount box on actuator

Terminal box including:

- WAGO Series 2002 clamps
- 2.5 mm<sup>2</sup> gray, blue, green/yellow as required
- 6 mm end stop, label holder and terminal label
- 3x M20 through holes (including cable gland and lock nut)
- Black or light gray cable glands (6 to 12 mm clamping range)
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 65
- Operating temperature: -15 to +40 °C

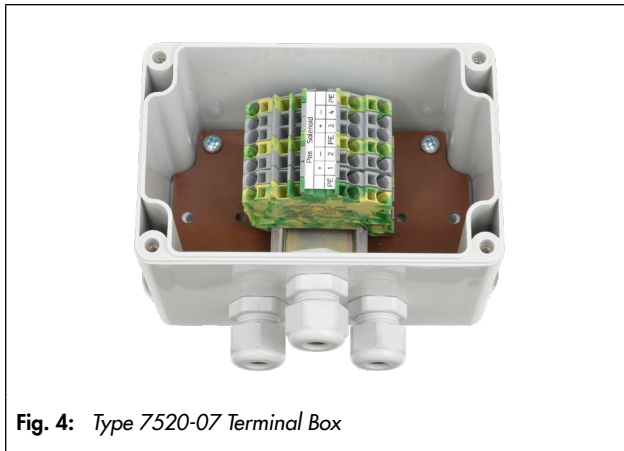


Fig. 4: Type 7520-07 Terminal Box

### Type 7520-08 Terminal Box

**Polycarbonate terminal box** 160x120x75 mm (WxHxD) ·  
Ready-fitted mounting bracket to mount box on actuator

Terminal box including:

- WAGO Series 2002 clamps
- 2.5 mm<sup>2</sup> gray, blue, green/yellow as required
- 6 mm end stop, label holder and terminal label
- 5x M20 through holes (including cable gland and lock nut)
- Black or light gray cable glands (6 to 12 mm clamping range)
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 65
- Operating temperature: -15 to +40 °C

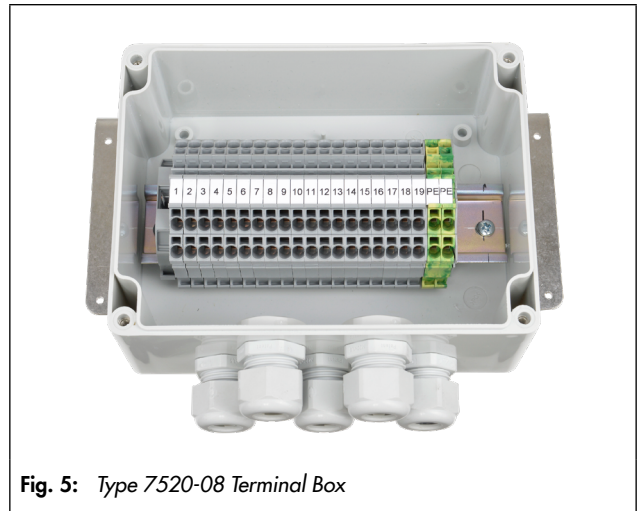


Fig. 5: Type 7520-08 Terminal Box

### Type 7520-09 Terminal Box

**Polyester Ex terminal box with cover** · For mounting on SAMSON actuators · Approval: Ex II2G Ex ia IIC T6 Gb · Terminal box dimensions 110x75x55 mm (WxHxD) · Enclosure with cover made of black glass-fiber-reinforced polyester (RAL 9005) · Ready-fitted mounting bracket to mount box on actuator · Creation of a simple terminal plan and testing

Terminal box including:

- 1x 15 mm rail
- 10x terminals (1.5/2.5 mm<sup>2</sup> blue, green/yellow as required)
- End stop and terminal label
- 3x M16 through holes including blue plastic Ex cable gland and lock nut (6 to 10 mm clamping range)
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 66
- Operating temperature: -20 to +40 °C

### Type 7520-10 Terminal Box

**Polyester Ex terminal box with cover** · For mounting on SAMSON actuators · Approval: Ex II2G Ex ia IIC T6 Gb · Terminal box dimensions 190x75x55 mm (WxHxD) · Enclosure with cover made of black glass-fiber-reinforced polyester (RAL 9005) · Ready-fitted mounting bracket to mount box on actuator · Creation of a simple terminal plan and testing

Terminal box including:

- 1x 15 mm rail
- 19x terminals (1.5/2.5 mm<sup>2</sup> blue, green/yellow as required)
- End stop and terminal label
- 3x M20 through holes including blue plastic Ex cable gland and lock nut (7 to 13 mm clamping range)
- 1x M20 through hole including black polyamide Ex screw plug
- Cable (approx. 1 m long) with free wire ends for connection to the terminal strip
- Degree of protection IP 66
- Operating temperature: -20 to +40 °C



## RFQ Form for Type 7520 Terminal Box

Customer data	
<b>Company</b>	
<b>Address</b>	
<b>Name</b>	
<b>Phone number</b>	
<b>E-mail</b>	

Send your inquiry to your regional SAMSON contact or e-mail it to ► [systems-de@samsongroup.com](mailto:systems-de@samsongroup.com)

Operating data	
Actuator (Type ...)	Material no.
Actuator size	Material no.
Valve (Type ...)	Material no.
Solenoid valve (Type ...)	Material no.
Positioner (Type ...)	Material no.
Limit switch (Type ...)	Material no.
Other mounted device 1	Material no.
Other mounted device 2	Material no.
Other mounted device 3	Material no.
Other instrumentation 1	
Other instrumentation 2	
Other instrumentation 3	
Option 1	
Option 2	
Option 3	
Model code:	
<b>7520</b> – AA BB C	Terminal box for valve actuator
7520 – <b>AA</b> BB C	Type .... Terminal Box
7520 – AA <b>BB</b> C	<b>01</b> For actuator $\leq 1400 \text{ cm}^2$ <b>02</b> For actuator $\geq 1400 \text{ cm}^2$ <b>03</b> For actuator $\geq 2800 \text{ cm}^2$
7520 – AA BB <b>C</b>	<b>0</b> Terminal configuration according to customer specifications

Notes

