



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HONEYWELL ML7420. You'll find the answers to all your questions on the HONEYWELL ML7420 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HONEYWELL ML7420  
User guide HONEYWELL ML7420  
Operating instructions HONEYWELL ML7420  
Instructions for use HONEYWELL ML7420  
Instruction manual HONEYWELL ML7420

**Honeywell**

**ML7420A/ML7425A,B**  
Electric Linear Valve Actuator



ML7420



ML7425

**FEATURES**

- Easy and quick installation
- No separate linkage required
- No adjustments required
- Low power consumption
- Force-limiting end stops
- Spring-return models (ML7425A,B)
- Manual operation knob
- Position feedback signal
- 0...10 Vdc or 2...10 Vdc signal input selectable
- Direct / reverse action selectable
- Stroke position on signal failure selectable
- Corrosion-resistant design
- Maintenance-free

**GENERAL**

The ML7420A / ML7425A,B actuators are designed for modulating control with controllers providing an analog output of 0...10 Vdc or 2...10 Vdc. They operate Honeywell's standard valves in heating, district heating, ventilation, and air conditioning (HVAC) applications. Spring-return models provide a safety position at power failure.

**SPECIFICATIONS DATA**

**Temperature Limits**

Ambient operating limits	-10...+50 °C at 5...95% r.h.
Ambient storage limits	-40...+70 °C at 5...95% r.h.
Medium valve temperature	Max. 150 °C (220 °C with High-Temperature kit)

**Signals**

Signal input voltage	y = 0...10 Vdc or 2...10 Vdc R <sub>i</sub> = 100kΩ
Signal source	1 kΩ max.
Position feedback signal	x = 2...10 Vdc
Load	1 mA max.

**Safety**

Protection class	III as per EN60730-1
Protection standard	IP54 as per EN60529
Flame retardant housing	V0 as per UL94 (with metal cable gland)

© U.S. Registered Trademark  
Copyright © 2007 Honeywell Inc. - All rights reserved

CE

EN08-02610E51 R0707



[You're reading an excerpt. Click here to read official HONEYWELL ML7420 user guide](http://yourpdfguides.com/dref/2939642)  
<http://yourpdfguides.com/dref/2939642>

**Manual abstract:**

..+70 °C at 5...95% r.h. Max. @@x = 2..

.10 Vdc 1 mA max. @@They operate Honeywell's standard valves in heating, district heating, ventilation, and air conditioning (HVAC) applications. Spring-return models provide a safety position at power failure. ® U.

S. Registered Trademark Copyright © 2007 Honeywell Inc. · All rights reserved EN0B-0261GE51 R0707 ML7420A/ML7425A,B Wiring Wiring terminals Cable entry Weight non-spring return type spring return type Material Cover Base Yoke ML7420A6017 1.5 mm2 M20. Two additional knockouts M18 and M20 for auxiliary switch and potentiometer accessories 1.

3 kg 2.4 kg ABS-FR glass fiber reinforced plastic aluminum diecast model number supply voltage power consumption signal input 0(2) Vdc signal input 10 Vdc stroke run time at 50 Hz close-off force spring return time ML7420A6009 ML7425A6008 ML7425B6007 24 Vac ±15%; 50/60 Hz 5 VA 7 VA 12 VA Actuator stem retracted. Two-way valve:"open", three-way valve port A-AB:"closed" \* Actuator stem extended. Two-way valve:"closed", three-way valve port A-AB:"open" \* 20 mm 1 min 0.5 min 600 N 1.8 min 12 s actuator stem extends actuator stem retracts spring return direction at power failure at power failure \* Factory setting; can be reversed by pressing the right-hand pushbutton (W3) located on the PCB (see Fig. 1). OPERATION General The drive of a synchronous motor is converted into linear motion of the actuator stem via a spur gear transmission. The actuator stem is connected with the valve stem by a buttonkeyed retainer connection. @@@@Max.

@@@@@@@@@@@@@@@@3). @1). @@@@@@The factory setting is with the actuator stem in the central position (50%). NOTE: The two pushbuttons (W3 and W2) and the potentiometer (W1) are accessible after the cover has been removed and are located at the rear side of the protection sheet of the printed circuit board. Accessories Auxiliary Switches The actuators can be equipped on-site with an auxiliary switch unit with two switches. Their switching points are adjustable over the full length of the actuator stroke. The switches can be used to switch pumps or provide remote indication of any stroke position. A cable gland M20 is delivered with the unit. Part number: 43191680-205 High-Temperature Kit (for applications >150°C medium temperature) order number High-Temperature Kit 43196000-001 valve V5011A/V5011K V5013A/V5013G V5011R,S/V5013R,S,E V5328A/V5329A V5011A V5013A/V5013G V5328A/V5329A V5049A V5050A V5328A V5016A V5025A V5049A (PN25/40) V5050 (PN16) V5050 (PN25/40) DN 15 40 15 40 15 50 15 32 50 50 40 80 15 65 15 80 100 150 100 150 100 150 80 100 100 150 100 direction input signal range of action input signal failure W3 W2 W1 43196000-002 LED Fig. 1.

Pushbuttons and potentiometer (default positions) Output Signal "POSITION" 43196000-038 An analog output signal 2...10 Vdc "POSITION" is available which represents the actual actuator position. It can be used for remote indication. @@2. @3. @@Printed in Germany EN0B-0261GE51 R0707 284 .



[You're reading an excerpt. Click here to read official HONEYWELL ML7420 user guide](http://yourpdfguides.com/dref/2939642)  
<http://yourpdfguides.com/dref/2939642>