



TA-Slider actuator by IMI TA

Optimal control and flexibility in buildings



a better world



I want reliable and adaptable control solutions

Perfect for INSTALLERS & CONTRACTORS:

- Save costs and avoid delays with up to 50% faster commissioning in comparison with conventional actuators
- Digitally set up actuator configurations even without BUS communication
- On-site adaptability to real system conditions and mounting in spacerestricted areas

I need connectivity and energy efficiency

Perfect for DESIGNERS:

- Reduce design complexity thanks to fewer and more versatile product variants
- Full configuration flexibility to remove worries of post-installation design changes
- Flexible installation options and longer lasting performance

TA-Slider 160 & 500





For valves requiring adjusting force up to 160N or 500N



Color LED indicators

Violet for error-detection and Red-Blue for easy recognition of heating / cooling mode in changeover systems

Universal connectivity M30x1,5 Small terminal unit standard: compatible with all IMI TA valves



BUS versions available:







Electronic failsafe function available



Reduction in commissioning time



Efficient digital configuration with flexibility and smartphone (via TA-Dongle and HyTune app) or through the BMS



Installation high longevity



10 times more setting parameters for flexible installation options



Fast fault detection with tracking of operation statistics and last 10 errors



Versions available with halogen free cable

TA-Slider 750 & 1600

For valves requiring adjusting force up to 750N or 1600N

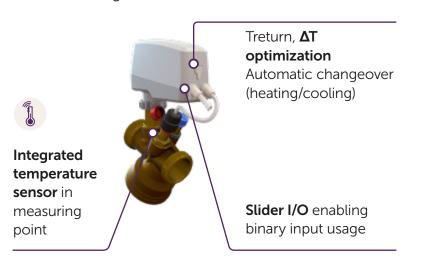


T and 2T feature

Combining advanced functionality with real-time temperature monitoring

The TA-Slider with T or 2T feature can seamlessly integrate with temperature sensors, effectively limiting return temperatures to address Low Delta T Syndrome and optimising energy consumption.

Furthermore, it independently manages changeover based on pipe temperature, reducing commissioning time.





Your benefits



Easy retrofitting and building upgrade



Improve energy efficiency and comply with regulations thanks to ΔT control



Ease of commissioning and installation

Temperature Sensors

Pocket Surface Insert

- Ideal for retrofit
- Accurate and fast response time
- No piping work
- Available for valves from DN10-400
- *See TA-Slider range in pages 8 and 10
- Reliable, well-established market solution
- Available for piping from DN10-DN300
- Ideal for retrofit
- No piping work
- Requirement of insulation to ensure accuracy and good response time

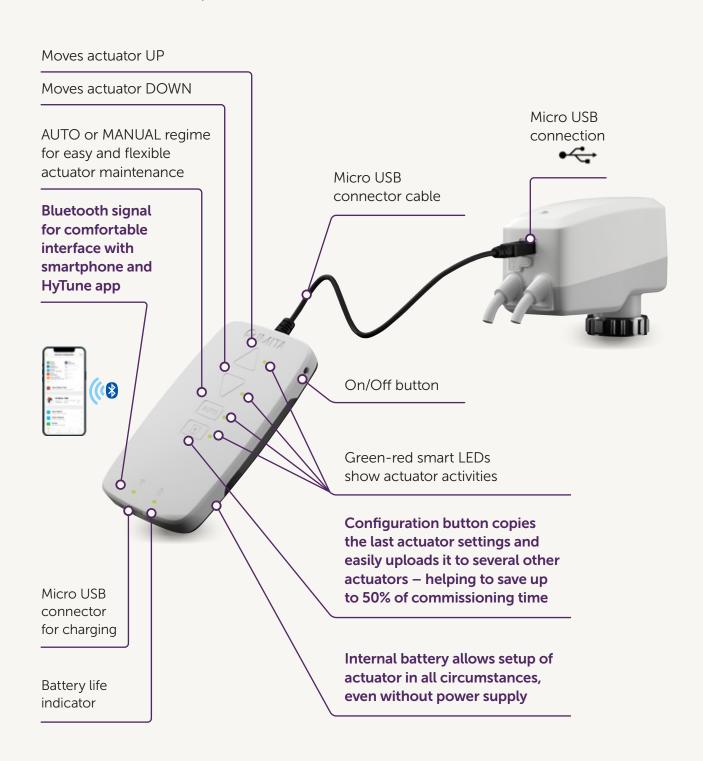
TA-Dongle

Digitally configure TA-Sliders without BUS communication

UNIQUE

TA-Slider is the only range of actuators that allow you to digitally view and control your actuator settings thanks to TA-Dongle.

TA-Dongle is compatible with the full **TA-Slider Range**: TA-Slider 160, 500, 750 and 1600.



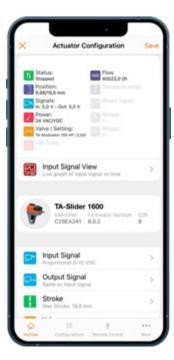
HyTune app



WATCH THE VIDEO

HyTune and TA-Dongle Tutorial for TA-Slider actuators

Mobile application to configure TA-Slider without BUS Communication



- Automatic detection of TA-Slider type
- Enables comfortable set-up of TA-Slider even on hard to reach or poorly lit environments

HyTune app is available on AppStore or GooglePlay





Intuitive and easy to use



Full digital configuration of all actuator parameters



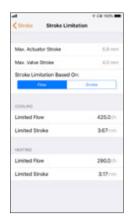
Fail-Safe **Parameters**



Input signal or dual-range input signal for heating-cooling changeover



Programmable binary input



Possibility to limit flow or Kv value (can be activated by binary input)



Input signal quality with oscilloscope function

- And much more: Overview of actual operating statuses & statistics
 - Output signal

- Type of calibration mode
- Error safe position

TA-Slider 160 & 500

Range Overview and Compatible IMI TA valves

TA-Slider versions		TA-Slider 160	TA-Slider 500		
TA-Slider versions for Non-BUS Systems TA-Slider versions for BUS Communication Systems		Std I/O CO Plus TI/O Fail-safe I/O Fail-Safe R24 2T I/O	Std I/O Plus T I/O Fail-safe I/O Fail-Safe R24 2T I/O		
		KNX KNX R24 ModBus ModBus CO BACnet BACnet CO	ModBus ModBus R24 BACnet BACnet R24		
	Stroke (max.) [mm]	6.9	16.2		
es*	Adjusting Force [N]	160 / 200	500 (push) 300 (pull)		
\ valv	TBV-C	✓			
Compatible IMI TA valve	TBV-CM	✓			
tible I	TA-COMPACT-P	✓			
mpa	TA-Modulator DN 10-32	✓			
Ö	TA-Modulator DN 40-50		✓		
	KTM 512 DN 15-50	✓	✓		

^{*}Please consider the static pressure value for final valve ϑ actuator selection

TA-Slider 160 & 500

TA-Slider versions and article numbers

Type	a)	_ Ē	cation	Actuator Features			atures	TA-Slider article number (with 1m cable length**)																					
Control System Type	System Voltage	Type of System Communication	BUS Communication	Input Signal 0(2)-10 VDC	Output Signal 0(2)-10 VDC	Binary Input	Relay																						
<u> </u>		<u>₹</u> 8	B	0(2)	000	Bir	Re	TA-Slider	TA-Slider 160	TA-Slider 500																			
		BUS Comms		~				Std	32222410111	32222510111																			
					~	~	~		I/O	32222410411	32222510411																		
								~	~	~		Fail-safe I/O	32222410614 ZERC	32222510614 ZERC															
												~	~	~	230V 🗸	Plus	32222410211	32222510211											
								~	~	~	24V 🗸	Fail-safe R24	32222410714 ZERC	32222510714 ZERC															
				~	~	~		I/O T	32222410814	32222510814																			
	C			~	~	~		I/O 2T	32222410914	32222510914																			
rtional	24 VAC/VDC		BUS Comms			BUS Comms	BUS Comms	BUS Comms	BUS Comms	Modbus RTU	~		~	24V 🗸	Modbus R24		32222512314 ZERC												
Modulating / Proportional	()									BUS Comms												Modb	~		~		Modbus	32222412011 ZERC	32222512011 ZERC
ulating											BACnet MS/TP	~		~	24V 🗸	BACnet R24		32222513314 ZERC											
Моф											BUSC	BUSC	BUSC	BUSC	BUSC	BUSC	BUSC	BACnet	~		~		BACnet	32222413011 ZERC	32222513011 ZERC				
																					X X X			~	24V 🗸	KNX R24	32222401301		
						Ā			~		KNX	32222401001																	
ystem		Non- BUS Comms		~	~	~	24V 🗸	CO*	32222410511																				
Changeover System	24 VAC	BUS Comms	BACnet Modbus MS/TP RTU	~		~	24V 🗸	Modbus CO*	3222241251 ZERC																				
Chang		BUSC	BACnet MS/TP	V		~	24V ✓	BACnet CO*	32222413514	90 PW																			

^{*} With "Click and connect" feature for effortless integration with rotary actuator of the TA-6-way valve



^{**} Article numbers will differ according to cable length. Available with 1, 2, or 5m cable length.

TA-Slider 750 & 1600

Range Overview and Compatible IMI TA valves

TA-Slider versions	TA-Slider 7	50	TA-Slider 1600			
TA-Slider versions for Non-BUS Systems	Plus/24V Plu	-Safe s/HV th relay)	Fail-Safe Plus/HV (with relay)			
	Plus (with relay) Modbus RTU Plus Modbus RTU	Plus (with relay) BACnet MS/TP	Plus (with relay) Modbus RTU	Plus Modbus RTU	Plus (with relay) BACnet MS/TP	
TA-Slider versions for BUS Communication Systems	Plus BACnet Plus (with relay Modbus TCP	y) Plus Modbus TCP	Plus BACnet MS/TP	Plus (with relay) Modbus TCP	Plus Modbus TCP	
	Plus (with relay) BACnet IP	D 2T	Plus (with relay) BACnet IP	Plus BACnet IP	2T	
Stroke (max.) [mm]	22			33		
Adjusting Force [N]	750			1600		
Stroke (max.) [mm] Adjusting Force [N] TA-Modulator DN 65-125 TA-Modulator DN 100*-200 KTM 512 DN 65-	~					
TA-Modulator DN 100*-200				~		
KTM 512 DN 65- 125	~			~		

^{*}TA-Slider 1600 is required for DN100 and DN125 if the pressure is higher than 4 bar

TA-Slider 750 & 1600

TA-Slider versions and article numbers

Type		Type of System Communication	cation		Actuator Features				TA-Slider article number																		
Control System Type	System Voltage		BUS Communication	Physical layer	Input Signal 0(2)-10 VDC	Output Signal 0(2)-10 VDC	Input Signal 0(4)-20 mA	Output Signal 0(4)-20 mAw	Binary Input	2 Relays	TA-Slider version	TA-Slider 750	TA-Slider 1600														
					✓	~	✓				Std	32222610110	32222810110														
		Non-BUS Comms			✓	~	~	~	/	230V 🗸	Plus (with relay)	32222610219	32222810219														
		Von-BUS Comms			✓	✓	~	✓	✓	230V 🗸	2T Plus (with relay)	32222610419	32222810419														
		Ν̈́O			~	~	~	✓	~	230V 🗸	Fail-Safe Plus (with relay)	32222610319	32222810319														
					~	~	~	✓	~	230V 🗸	2T Fail-Safe Plus (with Relay)	32222610519	32222810519														
				485	✓	/	/				Plus Modbus RTU	32222612210	32222812210														
) Q		BACnet	RS 4	~	~	~	~	~	230V 🗸	Plus (with relay) Modbus RTU	322226-12219	32222812219														
					~	~	~	~	~	230V 🗸	2T Plus (with relay) Modbus RTU	32222612419	32222812419														
rol]\ 				net	✓	~	~				Plus Modbus TCP	32222614210	32222814210													
cont	24 VAC/VDC	with BUS Comms				Ethernet	~	✓	~	✓	~	230V 🗸	Plus (with relay) Modbus TCP	32222614219	32222814219												
point							~	✓	~	✓	~	230V 🗸	2T Plus (with relay) Modbus TCP	32222614419	32222814419												
/3					85	/	✓	~				Plus BACnet MS/TP	32222613210	32222813210													
n-off					BACnet													RS 485	~	~	~	~	~	230V 🗸	Plus (with relay) BACnet MS/TP	32222613219	32222813219
Ō							~	~	~				Plus BACnet IP	32222616210	32222816210												
/ proportional / On-off / 3 point control						BACn	BACne	net	~	~	~	~	~	230V 🗸	2T Plus (with relay) BACnet MS/TP	32222613419	32222813419										
porti														Ethernet	~	~	~	~	~	230V 🗸	Plus (with relay) BACnet IP	32222616219	32222816219				
/ pro																											
ing		JS			/	~	~				Std	32222640110	32222840110														
nlat 		-BL	-BL			/	✓	~	✓	✓	230V 🗸	Plus	32222640219	32222840219													
Modulatir		Non-BUS Comms			~	~	~	~	~	230V 🗸	Fail-Safe Plus/HV (with relay)	32222640319	32222840319														
				485	~	✓	✓				Plus Modbus RTU	32222642210	32222842210														
	CWDC		Modbus	RS 4	~	~	~	~	~	230V 🗸	Plus (with relay) Modbus RTU	32222642219	32222842219														
	\\		١od	het	✓	✓	✓				Plus Modbus TCP	32222644210	32222844210														
	100-240 VAC/VDC	BUS Comms	~	Ethernet	~	~	~	~	~	230V 🗸	Plus (with relay) Modbus TCP	32222644219	32222844219														
	100	Š	j n	35	✓	~	~				Plus BACnet MS/TP	32222643210	32222843210														
		BU	BACnet	RS 485	✓	~	~	~	~	230V 🗸	Plus (with relay) BACnet MS/TP	32222643219	32222843219														
			3AC	Jet	✓	~	✓				Plus BACnet IP	32222646210	32222846210														
				Ethernet	~	~	~	~	~	230V ~	Plus (with relay) BACnet IP	32222646219	32222846219														

TA-Slider + TA-Modulator

Linear Actuator + PIBCV for modulating control that are fully configurable via your smartphone



TA-Slider 160 and TA-Modulator DN25

- Unique EQM characteristic on the valve, which is not distorted by the change of applied differential pressure*
- Optimized combination of EQM valve and linear actuator enables up to 6x higher operating stroke for better valve rangeability, even for small flows
- Modulating control reduces temperature oscillations and pumping costs helping to reach up to 18% annual energy savings**
- Limit return temperature and solve Low Delta T Syndrome, improving system performance and energy efficiency.



Key technical data

- For systems with or without **BUS** communication
- Available in sizes DN 10-200



TA-Slider 500 and **TA-Modulator DN40**



TA-Slider 750 and **TA-Modulator DN80**



TA-Slider 1600 and **TA-Modulator DN125**





^{*}Upon testing of 3 competitors, their valve characteristics were all sensitive to low differential pressure

^{**}in comparison to on-off control

TA-Slider + TA-Modulator



WATCH THE VIDEO

TA-Modulator Pressure Independent Balancing & Control Valve

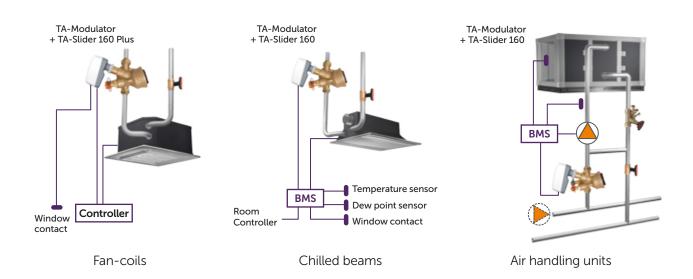
Typical Applications

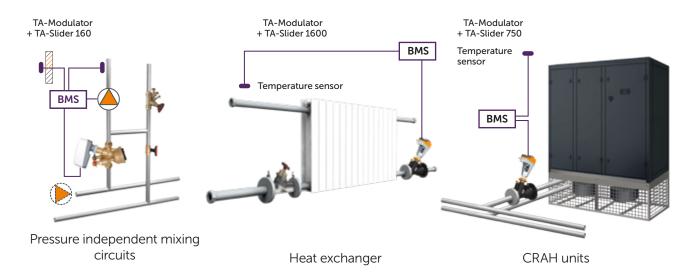
TA-Slider connects TA-Modulator to all BMS systems to ensure only the necessary amount of energy is delivered to keep the temperature constant - without oscillations.

Further energy savings can be achieved thanks to TA-Slider's digitally programmable binary input.

TA-Slider + TA-Modulator = the perfect match

The combination of the linear actuator with a valve with EQM characteristic offsets the non-linear characteristic of the terminal units enabling a very stable control of the power output and energy efficiency.





TA-Slider + TA-6-way valve

Changeover solution between heating and cooling in 4-pipe systems that is fully configurable via your smartphone.



TA-M106 actuator enables switch between the heating and cooling network in one device

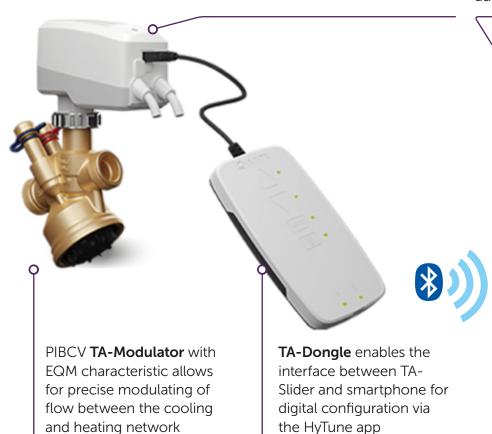
Key technical data

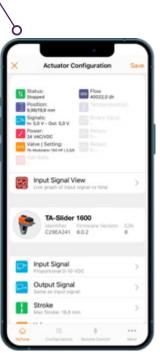
- For systems with or without BUS communication
- Available in sizes DN 15-20

TA-6-way valve prevents leakages thanks to male connection

The "click and connect" feature of the TA-Slider **160 CO** enables effortless electrical connection with the TA-M106 actuator

HyTune app enables digital configuration of system parameters to control changeover between heating and cooling - even if swapped during installation





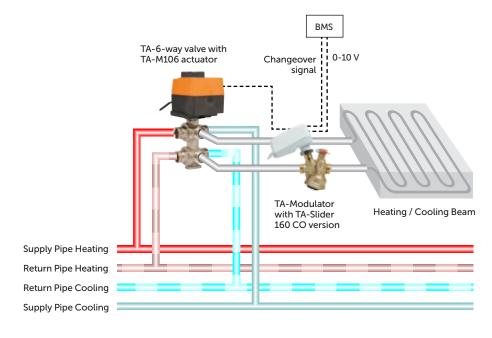
TA-Slider + TA-6-way valve

Typical Applications

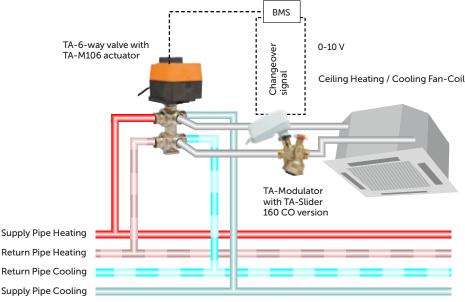
The TA-6-way valve switches between the heating and cooling functions controlled by the BMS signal, or for non-BUS systems, by the TA-Slider digital configuration parameters.

TA-Slider + TA-6-way valve = Highly precise and flexible control, with no risk of cross-flow

Access easy balancing, commissioning, troubleshooting and diagnostics all thanks to digital configuration and control.



Changeover solution with two control signals and Beam Terminal Unit



Changeover solution with three control signals and Fan-coil Terminal Unit

An extensive range of actuators





With functions for all your HVAC systems' needs



TA-Slider 160 Std version I/O version KNX KNX



TA-Slider 160 CO version TI/O Plus version KNX KNX R24



TA-Slider 160 Fail-Safe I/O Fail-Safe R24



TA-Slider 160 With BUS BACnet communication



TA-Slider 500 Std version I/O version



TA-Slider 500 Fail-Safe I/O TI/O Fail-Safe R24



TA-Slider 500 Plus version



TA-Slider 500 with BUS ⊕BACnet communication



TA-Slider 750 Std version



Plus (std) Fail-Safe 2T Plus/24V or HV



TA-Slider 750 Plus (with relays) *BACnet with or without BUS Communication Fail-Safe Plus (with relays)



Std version



TA-Slider 1600 Plus (std) Fail-Safe Plus/24V or HV



TA-Slider 1600 Plus (with relays) *BACnet* with or without BUS Communication Fail-Safe Plus (with relays)

How can we help you?

We are operating in more than 33 countries, please get in touch with one of our local offices and our expert team will be happy to help you.



If you want to know more, please scan the QR code and fill in the online form and our expert team will answer all your questions.





Notes

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Climate Control

Our product brands: IMI Pneumatex IMI TA IMI Heimeier

(Legally trading as IMI Hydronic Engineering SA)
Route de Crassier 19
CH-1262 Eysins
Switzerland