



Programmable phase-angle control units

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REOVIB MTS

REOVIB MTS series

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The REOVIB MTS series includes single-channel, two-channel and three-channel control units for vibratory conveyor drives. These are phase-angle control systems with a triac as the power element. The vibration frequency of the conveyor can be the same as or twice the frequency of the input voltage. Plug and socket connections for all inputs and outputs make rapid installation possible and facilitate the combination of several devices with each other or with external control systems. The devices use digital technology and are operated via a LED or LCD display and buttons.

All settings can be made without the housing having to be opened. Standardized plug and socket connections for the same functions enable equipment from other product lines to be combined with the MTS series of devices.



RoHS
COMPLIANT
2011/EG

Advantages

- Phase-angle control with programmable functions
Single-channel, two-channel or three-channel control for the optimal control of the complete conveyor system
- Digital setting of all parameters via LED display or multiline LCD display (MTS 443 LCD)
IP54 or IP20 design (MTS 441, MTS 610)
- Automatic mains voltage adjustment
- Material flow control
- Various sensor logic functions can be set
- Adjustable soft start
- With fill level/overflow control
- Integrated mains voltage compensation with constant vibration amplitude



REOVIB MTS 441 IP54

REOVIB MTS series

The **REOVIB MTS 441 control device** enables the desired conveyor speed and all control parameters can be set via a display integrated into the faceplate. Connections with other equipment in the REOVIB MTS series can be implemented quickly and easily. Application-specific settings can be stored and retrieved when required.

The equipment is available in IP 20 and IP54 versions and with various connection options:

- Input cable/output socket
- Complete cable connection solution for mains, output and control connections

The **REOVIB MTS 442 control device** has two power outputs that can be linked according to the application requirements (e.g. bowl and linear conveyors). All parameters can be input via a display integrated into the faceplate. Connections with other equipment in the REOVIB MTS series can be implemented quickly and easily. Application-specific settings can be stored and retrieved when required. The equipment is available in a standalone IP54 housing with various connection options:

- Input cable/output socket
- Complete cable connection solution for mains, output and control connections

The **REOVIB MTS 443 control device** has three power outputs that can be linked according to the application requirements (e.g. hopper, bowl and linear conveyors). Various sensor and valve logic can also be programmed. All parameters can be input via a display integrated into the faceplate. Application-specific settings can be stored and retrieved when required. The equipment is available in a standalone IP54 housing with various connection options:

- Input cable/output socket
- Complete cable connection solution for mains, output and control connections

REOVIB MTS 443-LCD

Same design as MTS 443, but with LCD display. The full-text display in various languages makes programming and adjustment easy and intuitive. Important status indications and settings can easily be input and retrieved.

REOVIB MTS 610

Single-channel control device in IP 20 module for mounting in a control cabinet with an output current of max. 25 A.



REOVIB MTS 441 IP20



REOVIB MTS 442 IP54



REOVIB MTS 610 IP20

Typical applications

- Conveyor & assembly automation
- Conveyor technology
- Sieving technology
- Filling & packaging technology



REOVIB MTS 443 IP54 with LCD

Technical data

	MTS 441	MTS 442	MTS 443	MTS 443 - LCD	MTS 610
Mains input	110 / 230V Auto Detect	110 / 230V Auto Detect	110 / 230V Auto Detect	110 / 230V Auto Detect	230 / 400 V Auto Detect
Mains frequency	50 / 60 Hz +/- 3 Hz	50 / 60 Hz +/- 3 Hz	50 / 60 Hz +/- 3 Hz	50 / 60 Hz +/- 3 Hz	50 / 60 Hz +/- 3 Hz
Output voltage	20...100 V / 40...210 V	20...100 V / 40...210 V	20...100 V / 40...210 V	20...100 V / 40...210 V	0...210 V / 0...360 V
Output current	max. 6 A, max. 10A (Option)	Per output max. 6 A	Per output max. 6 A	Per output max. 6 A	10 A / 25 A
Number of outputs	1	2	3	3	1
Max. Output current from all outputs	-	10 A	10 A	10 A	-
Vibration frequency	50 / 100 Hz (60 / 120 Hz)	50 / 100 Hz (60 / 120 Hz)	50 / 100 Hz (60 / 120 Hz)	50 / 100 Hz (60 / 120 Hz)	16,6 / 25 / 33,3 / 50/ 100 Hz (15 / 30 / 40 / 60 / 120 Hz)
Setpoint value	Display, Potentiometer 0...10V, 0...20 mA	Display, Potentiometer 0...10V, 0...20 mA	Display, Potentiometer 0...10V, 0...20 mA	Display, Potentiometer 0...10V, 0...20 mA	Display, Potentiometer 0...10V, 0...20 mA
Statussignal	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Ext. Enable	24 V DC, Switch	24 V DC, Switch	24 V DC, Switch	24 V DC, Switch	24 V DC, Switch
Sensor supply	24 V DC	24 V DC	24 V DC	24 V DC	-
Setting Umin / Umax	Display	Display	Display	Display	Display
Soft start	Adjustable 0...5 sec.	Adjustable 0...5 sec.	Adjustable 0...5 sec.	Adjustable 0...5 sec.	Adjustable 0...60 sec.
With fill level/overflow control	PNP, 24 V DC	Per output PNP, 24 V DC	Per output PNP, 24 V DC	Per output PNP, 24 V DC	PNP, 24 V DC
Mains voltage compensation	x	x	x	x	x
Coarse/fine control	x	x	x	x	-
Selectable timer function	x	x	x	x	-
Sensor time out monitor	x	x	x	x	-
Standards Conformity	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS
Protection class	IP20 / IP54	IP54	IP54	IP54	IP20
REOVIB-AC-Magnets:	WI 111, WI 121, WI 421 (6000 1/min, 3000 1/min), WI 621 (6000 1/min, 3000 1/min), WI 211, WE 131				