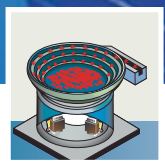
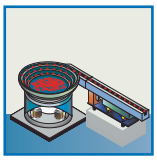


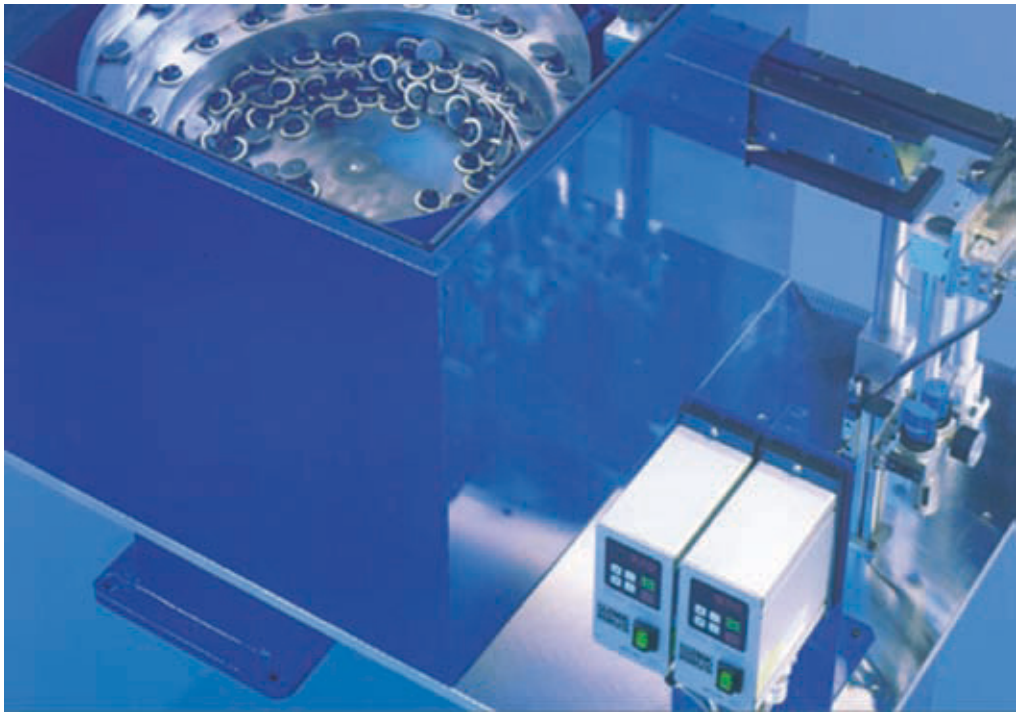


REOVIB MTS

Phase-angle controllers for vibratory feeders

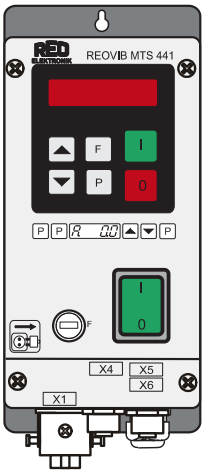
Pure|Power|Perfection

Whoever stops trying to be better has stopped being good



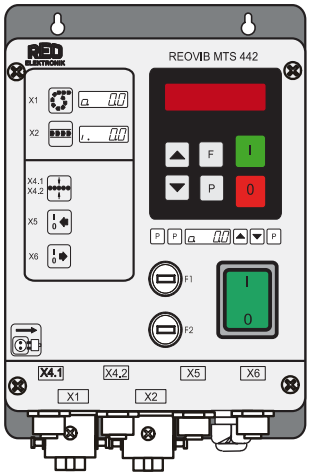
REOVIB MTS range

The REOVIB MTS range includes one-, two- or three-channel controllers for vibratory feeders. Working on the phase-angle control principle, they include a triac as a power element. Therefore, the vibrating frequency of the feeder can be the same as or double that of the mains frequency. The units are IP 54 rated and they are designed for easy mounting, especially when an aluminium section mounting rail is used.
Plug-in connectors for all inputs and outputs allow quick connection and simplify the combination of several units and their connection to external controls. The digital units are set up using buttons and an LED/LCD display. All settings can be made externally without opening the enclosure. Standardised plug-in connectors for identical functions allow these units to be combined with units from other ranges.



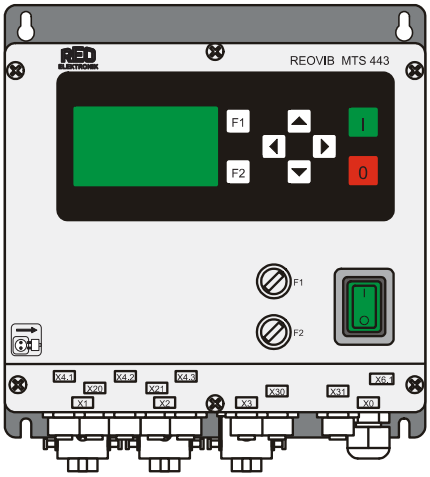
REOVIB MTS 441

1-Channel controller



REOVIB MTS 442

2-Channel controller



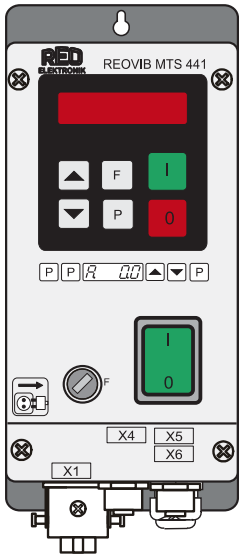
REOVIB MTS 443

3-Channel controller

Optional with LED- or
LCD-display available

REOVIB MTS 441

1-Channel controller
for vibratory feeders



Input
1 AC, L, N, PE
110 V / 240 V

PNP Sensor 24 V, DC

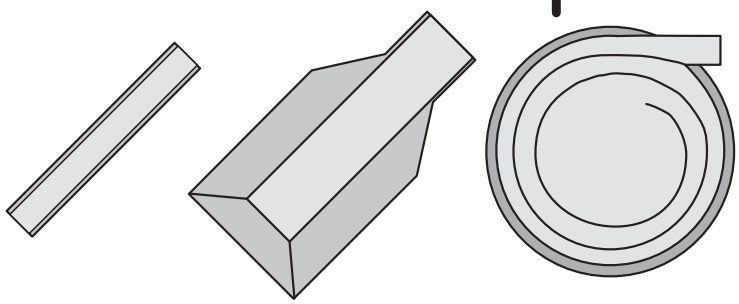
24 V, DC Output - Air jet
(internal connection)

I / 0 Enable: 24 V, DC or

I / 0 Status 24 V, DC

Ready Status 24 V, DC (Mains ON)

Time out 24 V, DC
(empty signal)



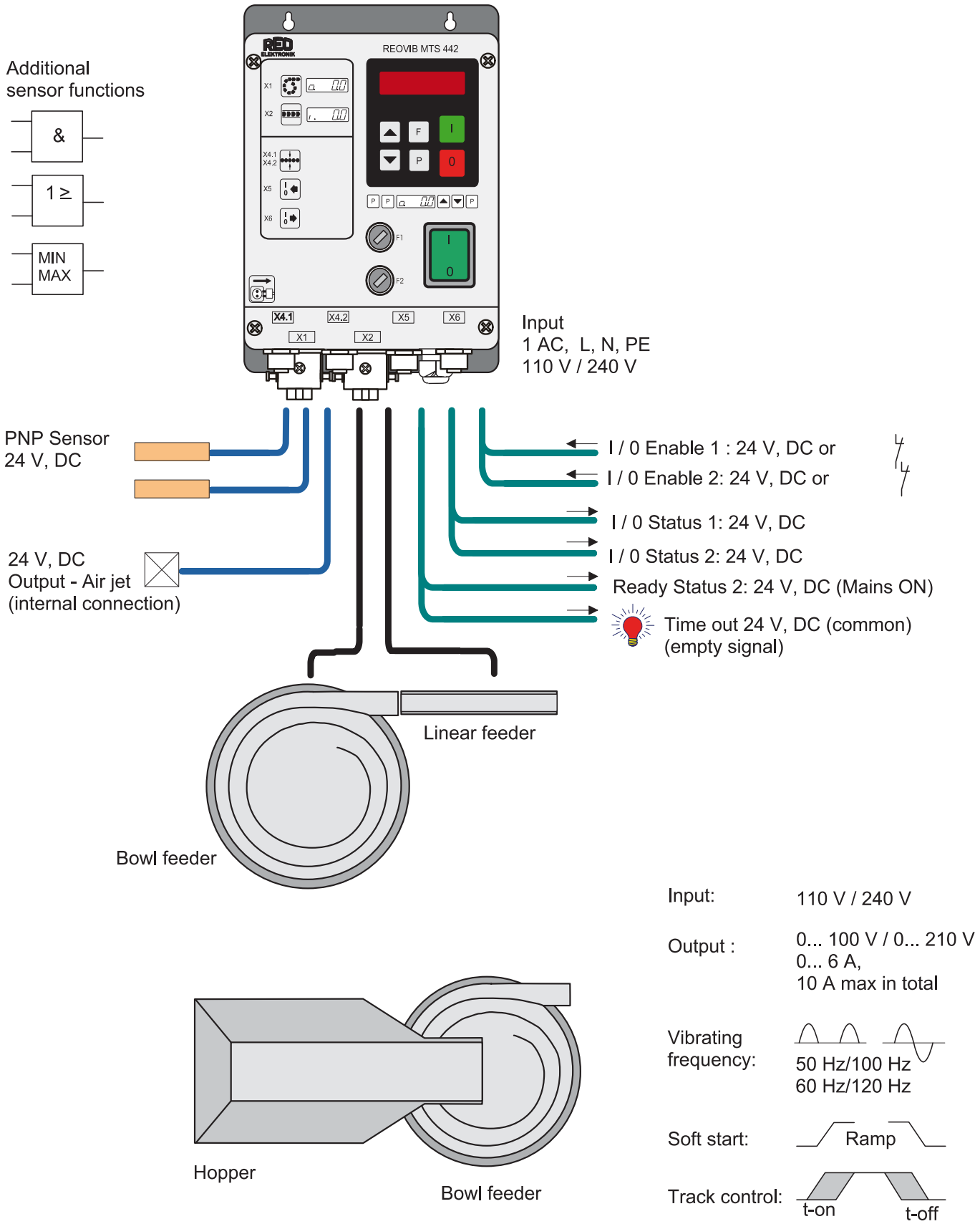
Linear feeder Hopper Bowl feeder

Input:	110 V / 240 V
Output :	0... 100 V / 0... 210 V 0... 6 A, 10 A max in total
Vibrating frequency:	50 Hz/100 Hz 60 Hz/120 Hz
Soft start:	Ramp
Track control :	t-on t-off

For "Adjustments" see page 4

REOVIB MTS 442

2-Channel controller
for vibratory feeders



Input:	110 V / 240 V
Output :	0... 100 V / 0... 210 V 0... 6 A, 10 A max in total
Vibrating frequency:	50 Hz/100 Hz 60 Hz/120 Hz
Soft start:	Ramp
Track control:	t-on t-off

For "Adjustments" see page 4

Adjustments REOVIB MTS 441

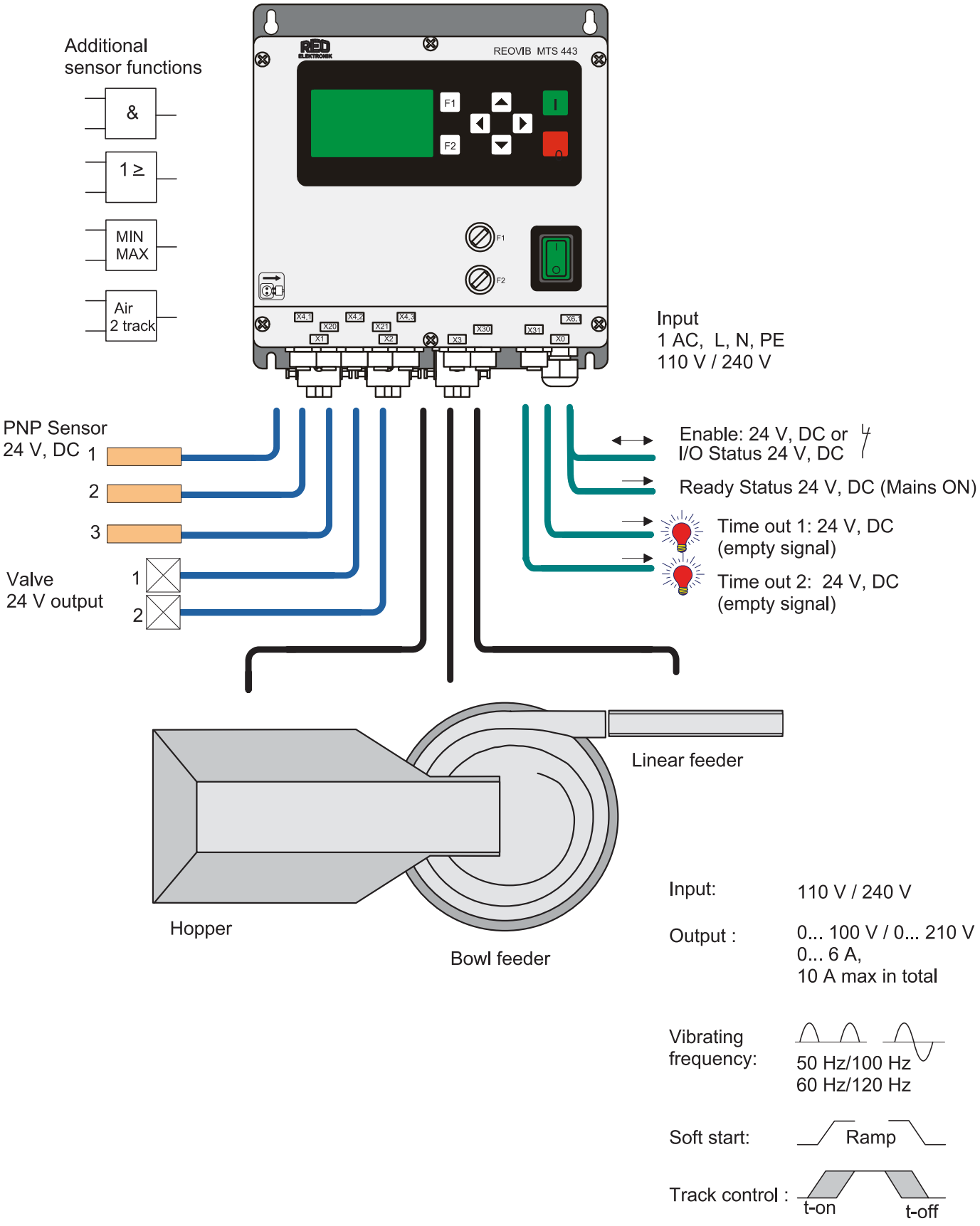
	Range	Default
Feed rate	0... 100 %	0 %
2. Set point (Coarse)	0... 100 %	0 %
External set point	0 / I	0 %
Set point Potentiometer	0 / I	0
Set point 0(4)... 20 mA	0 / I	0
Maximum limit	50...100 %	100 %.
Vibrating frequency	0 / I	0
Soft start	0... 10 Sec.	0,1 Sec.
Soft stop	0... 10 Sec.	0,1 Sec.
Invert enable	0 / I	I
Switch on time delay	0... 60 Sec.	5 Sec.
Switch off time delay	0... 60 Sec.	5 Sec
Invert sensor	0 / I	0
Sensor time out	0 / I	0
Sensor time out time	30... 240 Sec.	5 Sec.
Pulsed operation	0 / I	0
Pulse ON	0... 60 Sec.	2 Sec.
Pulse OFF	0... 60 Sec.	2 Sec.
Coarse / fine control active	0 / I	0
Air valve function	0 / I	0
Save user settings	PUSH.	
Restore factory settings	FAC.	
Restore user settings	US.PA.	
Hide programming menus	Hd.C.	

Adjustments REOVIB MTS 442

	Range	Default
Feed rate channel 1	0... 100 %	0 %
Feed rate channel 2	0... 100 %	0 %
2. Set point (Coarse) channel 1	0... 100 %	0 %
Maximum limit channel 1	50...100 %	100 %.
Maximum limit channel 2	50...100 %	100 %.
Vibrating frequency channel 1	0 / I	0
Vibrating frequency channel 2	0 / I	0
Soft start channel 1	0... 10 Sec.	0,1 Sec.
Soft start channel 2	0... 10 Sec.	0,1 Sec.
Soft stop channel 1	0... 10 Sec.	0,1 Sec.
Soft stop channel 2	0... 10 Sec.	0,1 Sec.
Invert enable channel 1	0 / I	I
Invert enable channel 2	0 / I	I
Switch on time delay channel 1	0... 60 Sec.	5 Sec.
Switch off time delay channel 2	0... 60 Sec.	5 Sec.
Switch off time delay channel1	0... 60 Sec.	5 Sec.
Switch off time delay channel 2	0... 60 Sec.	5 Sec.
Invert sensor channel 1	0 / I	0
Invert sensor channel 2	0 / I	0
Sensor time out channel 1	0 / I	0
Sensor time out channel 2	0 / I	0
Sensor time out time	30... 240 Sec.	5 Sec.
Sensor logic AND	0 / I	0
Sensor logic ExOR	0 / I	0
Sensor logic OR	0 / I	0
Pulsed operation channel 1	0 / I	0
Pulsed operation channel 2	0 / I	0
Pulse ON	0... 60 Sec.	2 Sec.
Pulse OFF	0... 60 Sec.	2 Sec.
Channel 1		
Coarse / fine control active	0 / I	0
Interlocking		
Channel 1 inhibits channel 2	0 / I	0
Channel 2 inhibits channel 1	0 / I	0
Air valve function	0 / I	0
Save user settings	PUSH.	
Restore factory settings	FAC.	
Restore user settings	US.PA.	
Hide programming menus	Hd.C.	

REOVIB MTS 443

3-Channel controller
for vibratory feeders



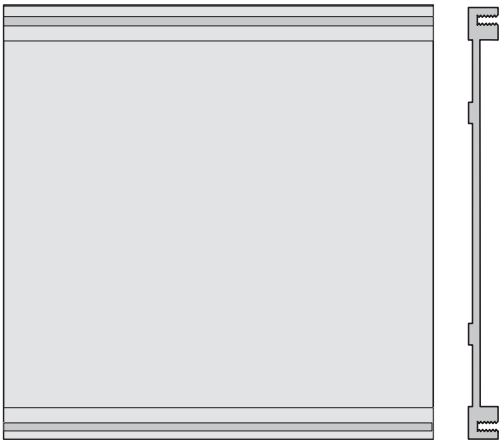
Input:	110 V / 240 V
Output :	0... 100 V / 0... 210 V 0... 6 A, 10 A max in total
Vibrating frequency:	50 Hz/100 Hz 60 Hz/120 Hz
Soft start:	Ramp
Track control :	t-on t-off

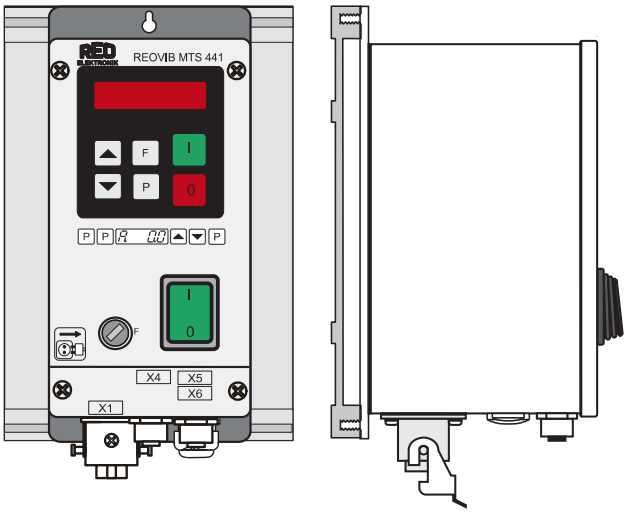
For "Adjustments" see page 6

Adjustments REOVIB MTS 443

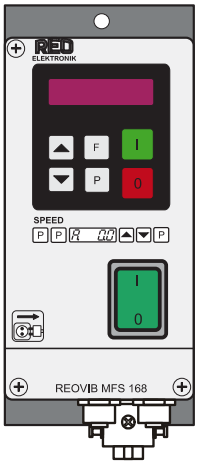
	Range	Default
Linear Feeder:		
Feeder Speed:	0...100 %	0 %
Enable Invert:	0 / 1	1
Ramp up time:	0...60 Sec.	5 Sec.
Ramp down time:	0...60 Sec.	5 Sec.
Max Output:	5...100 %	90 %
Half Wave:	0 / 1	0
Bowl Feeder:		
Feeder Speed:	0...100 %	0 %
Enable Invert:	0 / 1	1
Ramp up time:	0...60 Sec.	5 Sec.
Ramp down time:	0...60 Sec.	5 Sec.
Max Output:	5...100 %	90 %
Half Wave:	0 / 1	0
Hopper Feeder:		
Feeder Speed:	0...100%	0 %
Enable Invert:	0 / 1	1
Ramp up time:	0...60 Sec.	5 Sec.
Ramp down time:	0...60 Sec.	5 Sec.
Max Output:	5...100 %	90 %
AC-Motor for Hopper:	0 / 1	0
Half Wave:	0 / 1	0
Hopper Pulse Feed ON Time:	0... 60 Sec.	
Hopper Pulse Feed OFF Time:	0... 60 Sec.	
Track Control:		
Invert Enable:	0 / 1	0
Switch ON delay:	0...60 Sec.	5 Sec.
Switch OFF delay:	0...60 Sec.	5 Sec.
2nd Setpoint activate:	0 / 1	0:
Time-out activate	0 / 1	0
Time-out time:	30...180 Sec	
Hopper Feed Control:		
Enable invert :	0 / 1	0
Switch ON delay:	0...60 Sec.	5 Sec.
Switch OFF delay:	0...60 Sec.	5 Sec.
Time-out activate:	0 / 1	0
Time-out time:	30...180 Sec.	30 Sec.
24V Output 1:		
ON Time:	0...60 Sec.	5 Sec.
24V Output 2:		
Switch ON delay:	0...60 Sec.	1 Sec.
Switch OFF delay:	0...60 Sec.	1 Sec.
Sensor Logic:		
MIN-MAX:	0 / 1	0
AND:	0 / 1	0
OR:	0 / 1	0
Twin Track:	0 / 1	0
Any Channel:	0 / 1	0
Save user settings	PUSH.	
Restore factory settings	FAC.	
Restore user settings	US.PA.	
Hide programming menus	Hd.C.	

Mountings:
Aluminium section mounting rail for stand-alone units

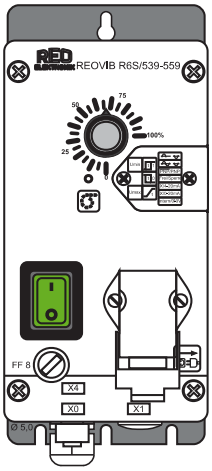




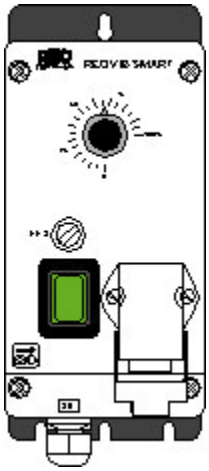
Add-on units:



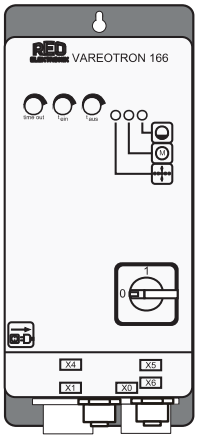
Frequency controllers
REOVIB MFS range



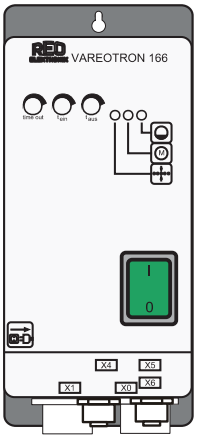
Thyristor controllers
REOVIB RTS range



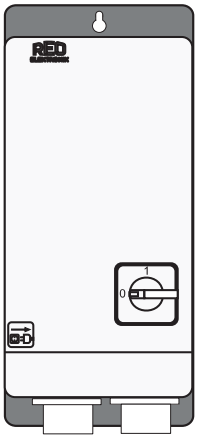
Thyristor controllers
REOVIB SMART
range



Control units
including
motor contactor,
for belt hopper
with 3-phase
or single-phase
motor



Control units
for belt hopper with
24 V, DC motor



Extension modules
including
motor contactor
for the belt hopper
driven by a
3-phase motor,
to be used
together with
REOVIB MTS 442

Potentiometer

Contact (volt free)

Input

Output

Sensor

Virbating frequency
50 Hz (60 Hz)
Half wave

Virbating frequency
100 Hz (120 Hz)
Full wave

Soft start ramp

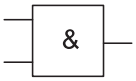
Soft stop ramp

Track control
ON delay

Track control
OFF delay

Valve

logic function



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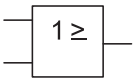

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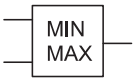


ExOR

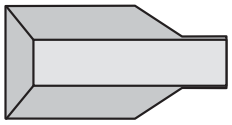
special
2 track feeder
with air blow

Warning
signal

Time scale

Linear feeder

Bowl feeder



Hopper feeder

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