



VS230FM

Inverter based vibration control instrument

Inverter based instrument for the control of electromagnetic vibrators in 230 V with single winding, suitable for dosing and packaging systems.

It enables the vibrating channel to operate under optimal conditions, by allowing both the vibration frequency and amplitude to be set independently, without being constrained by the mains frequency.

Vibration intensity is adjusted via the 0-10V input or, alternatively, the 4-20mA input, whereas frequency, output voltage, and other parameters can be adjusted via the programming menu.

It is also possible to program and manage vibration parameters remotely via the CANbus interface, the RS485 serial port (modbus RTU), or via Ethernet (Modbus TCP).

The instrument has also the possibility to connect an external contact to enable or disable the operation of the vibrating channel (start/stop contact).

Finally, an optional external vibration sensor can be connected that permits the automatic detection of the vibrating channel's resonant frequency and also permits the dynamic adjustment of the vibration intensity, maintaining the most constant feed rate possible regardless of load or mechanical variations.

Should additional functionalities become necessary, it is possible to customize them in order to satisfy every need.

Certifications



Technical characteristics

Power supply:	110-230 VAC / 50-60 Hz
Output voltage:	0.110V / 0.230V
Output current:	4 / 6 / 8A
Vibration frequencies:	0.250Hz
Nominal vibrator voltage:	10/230 VAC
Vibrator outputs:	1
Analog inputs:	1x 0-10V, 1x 4-20mA
Digital inputs:	1x start/stop function
Digital outputs:	1x NPN
Communication interfaces:	1x CANbus, 1x RS485, 2x Ethernet
Accessories:	1x Vibration sensor
Display:	2x16 characters alphanumeric
Item weight:	1500 gr.
Item size:	76 x 168 x 174 mm
Fixing:	On panel