

Electronic Controller for Electromagnetic Vibratory Feeders

▶ **FQ1 PWM** **6A** **115V 230V** **DIGITAL**

**General**

This controller is available in metallic box with two potentiometers and display, with keys and display, with a potentiometer without display or in circuit with DIN35.

**General Characteristics**

Voltage (115V) 230V, 50/60 Hz • 3000/6000 vpm • Double Input ON/OFF • Soft/fast ramp • Manual Regulation amplitude/frequency ( 30/80Hz - 80/130Hz) min/max • Limitation Max Output current • Line input with schuko plug • Vibrator output with connector - Delay 8 sec max On/Off vibrator with sensor NPN/PNP or relay contact - Automatic Input from PLC 0/10V-0/20mA - Status relay

**Applications**

Digital regulation of linear and bowl feeder till 6,3 Amps - The FQ1 PWM allows optimizing operation of the vibratory feeder by searching for its resonance frequency (max performance) thereby eliminating its lengthy and difficult mechanical calibration.

**Options**

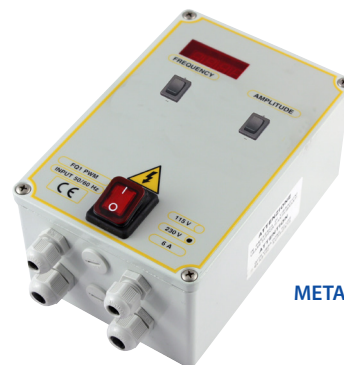
Customized label • Connector for vibrator • Frequency Meter.

**Technical Specs**

<i>Feeding Tension:</i>	115V or 230V ± 10% 50/60Hz
<i>Consumption:</i>	2,5 W max
<i>Max Current:</i>	6,3 A (RMS)
<i>Min Load:</i>	50 mA (RMS)
<i>Vibration Frequency:</i>	30/80Hz(50Hz) - 80/130Hz(100Hz)
<i>Time of Ramp:</i>	1 sec.
<i>Input Sensor:</i>	NPN/PNP or Free voltage contact
<i>Automatic Input:</i>	0/10V-0/20mA (with 470 Ohm)
<i>On/Off:</i>	free contact
<i>Delay ON/OFF:</i>	0/8 sec
<i>Protection Degree:</i>	IP65 in box (NEMA4-4X)
<i>Storage Temperature:</i>	-15°C./ + 80°C.
<i>Operation Temperature:</i>	-5°C / +55°C
<i>Altitude:</i>	till to 2000 meters
<i>European Norms:</i>	EMC CE
<i>Warranty:</i>	1 year (from date on circuit)



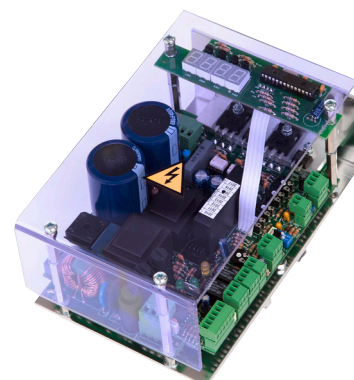
**METALLIC BOX FQ1 PWM**  
PV FQPO Z2 STD  
195x130x90



**METALLIC BOX FQ1 PWM**  
PV FQPK Z2 STK  
195x130x90



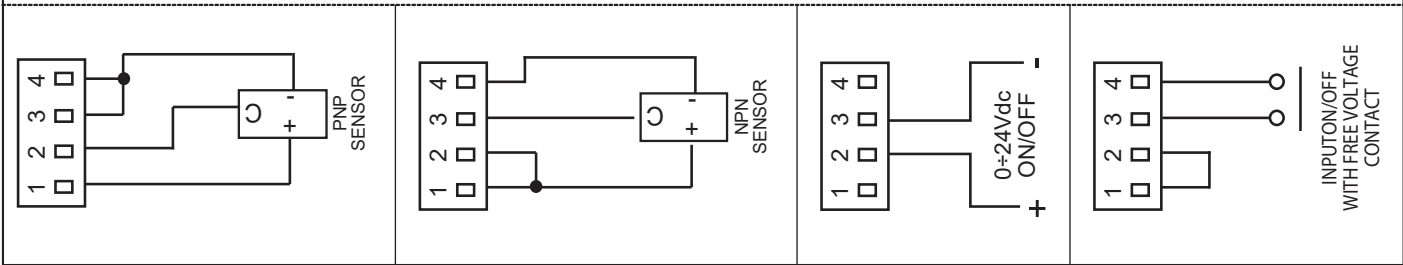
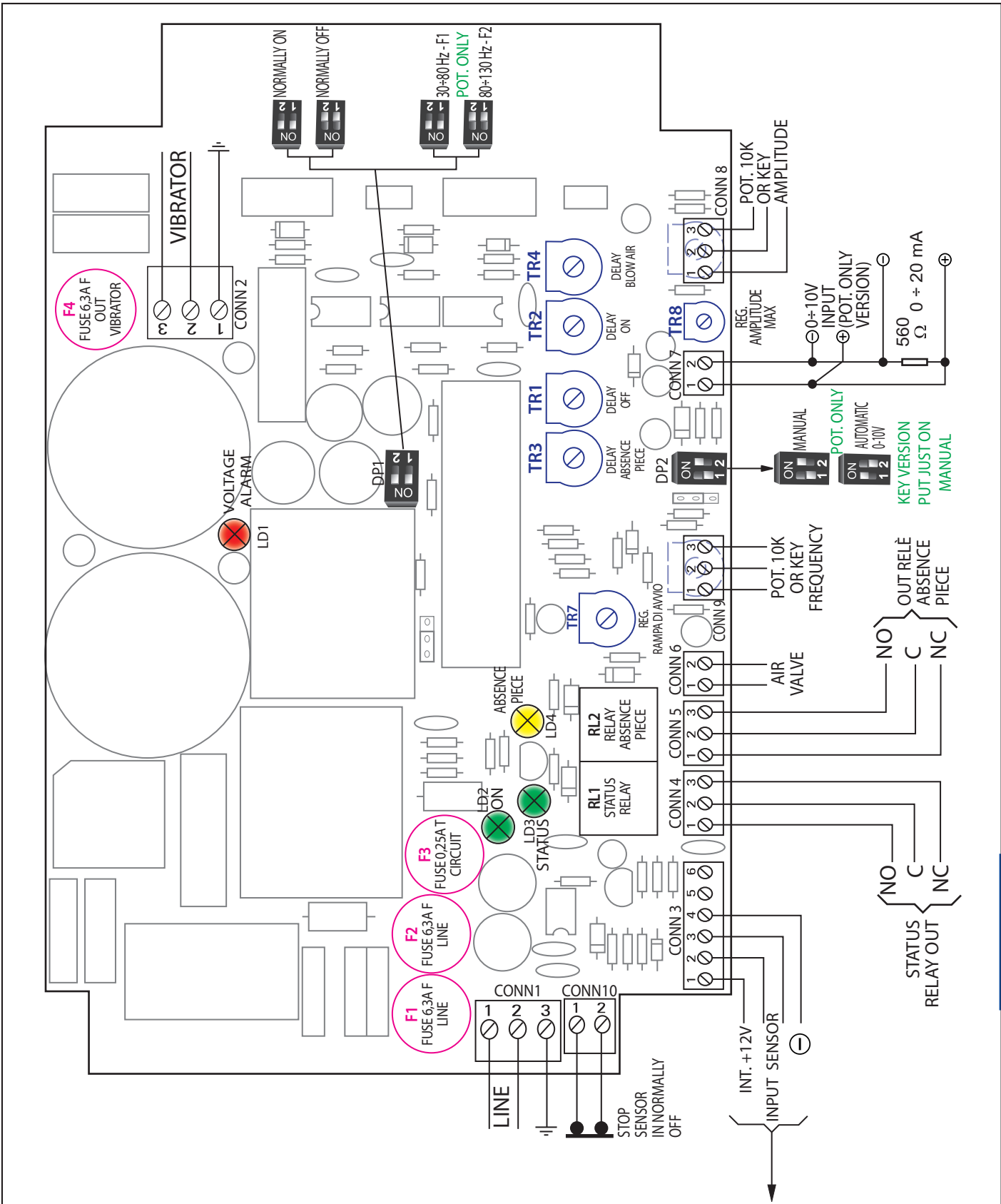
**METALLIC BOX FQ1 PWM**  
PV FQPB Z2  
STB195x130x90



**CIRCUIT DIN35**  
PV FQPO D2 STD

**Available Versions**

Type	Box	Colour	Dimensions	Code	Price €
FQ1PWMB	Metallic	RAL 7035	195 x 130 x 90	PV FQ1PW Z2 STB	
FQ1PWMB	Circuit Din		195 x 120 x 50	PV FQ1PW D2 STB	
FQ1PWM	Metallic	RAL 7035	195 x 130 x 90	PV FQ1PW Z2 STD	
FQ1PWM	Circuit Din		195 x 120 x 50	PV FQ1PW D2 STD	
FQ1PWWK	Metallic	RAL 7035	195 x 130 x 90	PV FQ1PW Z2 STK	



Description: FQ1-PWM DIGITAL PWM AMPLITUDE/FREQUENCY CIRCUIT

CODE	REV	DATE	DRAFTSMAN	SHEET
DTFQ1PWM	05	08/15	E. PEDRAZZI	1/1