

DIGITAL POWER TRANSMITTER FOR CONCRETE MIXING MACHINE

μTAC 400 SPB

Measurement of the mixing machine electric power, allows the control and the repeatability of the concrete plasticity.

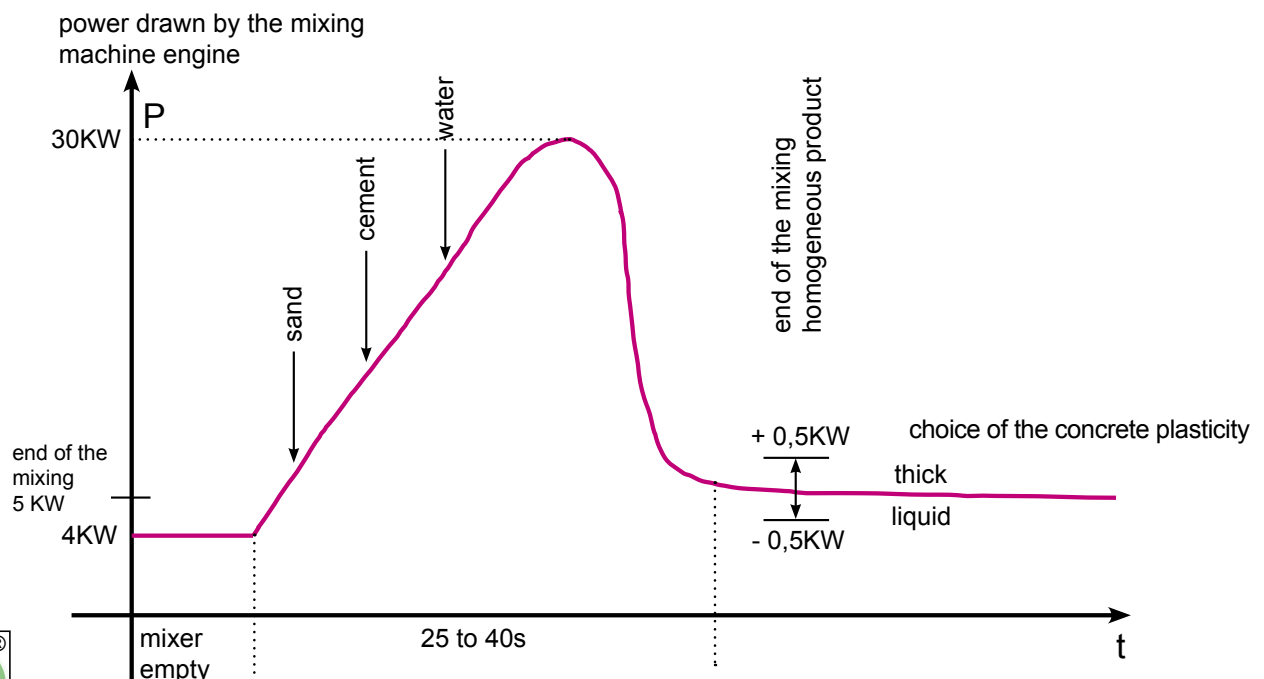


Functions

- The μTAC400 accepts as input by programming :
Current: 1A and 5A AC
Voltage: 100V L-N / 175V L-L and 330V L-N / 600V L-L
- 2 analog outputs 0-10V (engine power)
- Fast cycle time: 40ms
- Universal (switching) power supply: 20 to 240 Vac / 20 to 300 Vdc
- Simple programming accessible by PC via the software *MC VISION*.

TRANSMITTER

Example of application: start up curve of a 30KW mixing machine



The friendly interface

CA
CO112SPB

Technical features

Inputs

- **Voltage** 2 programmable ranges:
Un=100V L-N / 175V L-L and 330V L-N / 600V L-L
- **Current** 2 programmable ranges: 1 and 5A (In=1,2A & In=6A)
Measurable overrange: 1,2 In; 1,2 Un
Overloads permanent: 750 V, 2 In
during 10 s: 1000 V, 10 In
Power draws voltage input: resistances 1 MΩ
current input: < 0,2 VA
Test voltage 2 kV / 50 Hz / 1 min.
Frequency 10...50...65 Hz (other frequencies: consult)
Type of network unbalanced 3 wire (2 or 3 CTs)

Outputs

- **Analog outputs**
Galvanic partition 1kV (between outputs)
2kV (inputs).
Output signal **2 unidirectional outputs 0-10V:**
option outputs 4/20mA: specify on order
Scale setting 0 to 100% of the measure range (programmable)
Admissible load up to 600Ω (20mA)
Accuracy of the board < 0,1% of the full scale
Max. residual ripple >25mV (peak to peak) on 500Ω load
Response time typical 60ms maximum <100ms (input/output)
Thermic drifts < 120 ppm caliber -20/+20mA
< 200 ppm caliber 0/20 mA

Supply

Universal power supply
20...270 V_{AC} / 20...300 V_{DC}
Power draw 6 VA max. in ac, 3,5W max. in DC

Measure

- **Parameter: engine power**
Accuracy rating: 0.5 (CEI688-1)
Thermic drifts < 200ppm
Measuring method fast simultaneous sampling of the 3 voltages and the 3 currents. Digital calculation on 32 bits. Measuring of deformed signals, pass-band 6.4KHz
Digital filtering programmable on several levels
Cycle time 40ms

Environment

Operating temperature: -10°C to 55°C
Storage temperature: -25°C to +70°C

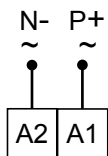
CE marking

Wiring

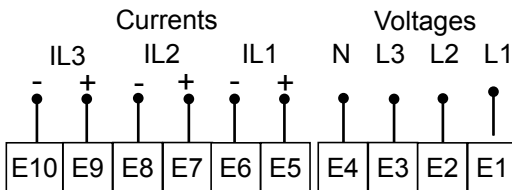
With detailed handbook, supplied with the instrument.

Wiring

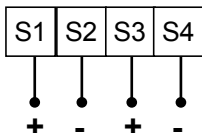
Power supply



Inputs



Analog outputs

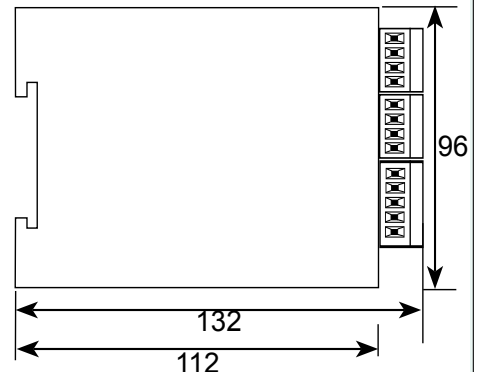
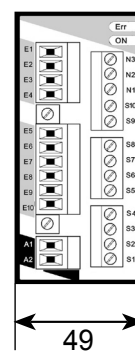


This appliance is dedicated to industrial applications. It has to be installed in an electrical switchbox, or equivalent.

Dimensions

Dimensions : (H x L x D) 96 x 49 x 112 mm
(D=132, with terminals)

Front face view



Protection : Housing / terminals: IP 20

Housing : Self-extinguishing case of black UL94VO
For latching on symmetrical DIN rail
Plug-off connectors for screwed connections (2,5mm², flexible or rigid)

Weight : 200g to 500g

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