

FT NavVision® AC Monitor

The FT NavVision® AC Monitor is a universally applicable measuring transducer, suitable for accurate measurement of voltage and current.

The transducer is suitable for 1 or 3 phase systems, with or without zero conductor.

All inputs and outputs, and the auxiliary supply, are fully galvanically separated, which guarantees problem-free operation.

The connector set provided allows for quick mounting of the transducer. The connector set is polarised, keeping the risk of connection errors to an absolute minimum.

Specifications

Circuit voltage

Nominal voltage:	58/100V...400/690Vac
Crest factor:	2
Overload:	1,2 x Un continu, 1000V / 10 sec
Power consumption:	< 2 mA (each input)
Input impedance:	>1 MOhm per phase

Circuit current

Nominal current:	1 or 5 Ampère
Crest factor:	3
Overload:	1,2 x In continu, 180A / 1 sec
Power consumption:	< 0.3 VA (each input)

Frequency of current & circuit voltage

Standard reach:	45-65Hz
Special:	162/3 Hz, 400Hz

Current output DC

Current/ load:	4 - 20mA / < 500 Ω
(Io / Ro):	-2.5 - 0 - 2,5mA / < 4 k Ω
	-5 - 0 - 5mA / < 2 k Ω
	-10 - 0 - 10mA / < 1 k Ω
	-20 - 0 - 20mA / < 500 Ω

Compliance voltage:	10V
Live zero:	20% of end value
Ripple:	< 0,1% p-p
Max. current:	at Ro = max. 1,5xIo at Ro = nul Ω < \pm 25mA

Voltage output DC

Voltage/ load:	0 - 10V / > 1 k Ω
(Uo / Ro):	-5 - 0 - 5V / > 500 Ω
	-10 - 0 - 10V / > 1 k Ω

Ripple:	< 0,1% p-p
Max. voltage:	< \pm 15V
Max. current:	10mA max.
Response time:	Analogue <125msec. Digital <100msec.

Output curves: single, dual and triple slope

Pulse output

Pulse output:	Open Collector (NPN)
Pulse width:	50..1000ms
Pulse frequency:	10Hz max.
Max. current:	50mA (sink)
Max. voltage:	30Vdc



Physical attributes & approval

Housing:	PC
Dimensions:	120x100x70mm
Mounting:	DIN rail
Protection class:	Housing IP40 Clamps IP20
Weight:	ca. 0,8kg (max.)
Operating temperature:	-10...+60°C
Storage temperature:	-25...+70°C

Technical drawings

