



R-FT

MECO-G AC Frequency Transducers measures and convert a sinusoidal AC Frequency signal into a standard industrial DC signal which is directly proportional to the measured input signal. These transducers provide an output which are load independent and isolated from the input. These outputs are accurate, reliable, consistent and stable and are suitable for Telemetry for remote, local as well as Central Monitoring Systems, Data-loggers, PLC's, SCADA systems and control applications.

GENERAL SPECIFICATIONS

Accuracy	± 0.5% (Standard), ± 0.2% (Optional) of Rated output
Output Ripple	0.2% RMS
Response	Less than 0.5 Sec.
Frequency	50/60 Hz
Zero Adj.	± 2% Min.
Span Adj.	± 10% Min.
Operating Temp.	0-50°C (RH<90%) (Non Condensing)
Storage Temp.	-20°C to 70°C (Non Condensing)
Overload Continuous	2x Rated Current, 1.2x Rated Voltage
Breakdown Impulse Voltage	1x40µs 4.5 KV (without dewing.)
Temperature Coefficient	0.03% / °C.
Dielectric Withstand Voltage	2KV for 1 min. (Standard), 4KV (Optional) across Casing - Input / Output / Auxiliary
Insulation Resistance	>100 MΩ at 500VDC

MODEL	TYPE
R-FT	Frequency Transducer

AC INPUT		AUXILIARY POWER SUPPLY		DC OUTPUT RANGES			
Frequency Input	45-55Hz	0-110 / 220VAC ± 10% 50/60 Hz Approx.		Current		Voltage	
	40-60Hz	85-264V AC/DC ± 10%		Output	Load	Output	Load
	55-65Hz	19-90V AC/DC ± 10%		0-1mA	≤10kΩ	0-1V	≥1kΩ
	45-65Hz	0-24 / 48 VDC ± 10% 2Watts Approx.		0-5mA	≤2kΩ	0-5V	≥5kΩ
	360-440Hz	0-110V DC ±10% 2 Watts Approx.		0-10mA	≤1kΩ	1-5V	≥5kΩ
Voltage Input	0-63.5 / 110 / 230 440V	0-220V DC ± 10% 2 Watts Approx.		0-20mA	≤500Ω	0-10V	≥10kΩ
				4-20mA	≤500Ω	2-10V	≥10kΩ

- Note:
- 1) AC Frequency Transducers without separate auxiliary supply (Self Powered) can be supplied.
 - 2) Asymmetrical / Symmetrical output transducers are available.
 - 3) Other auxiliary Power supplies available, subject to technical feasibility
 - 4) All input ranges are suitable with PTR.
 - 5) Other ranges (Inputs / Outputs) available on request, subject to technical feasibility.

CONNECTION DIAGRAM

