



PDH Programmable Frequency Transducer



Aux. Supply



Long Term
Stability



Galvanic
Isolation



Mounting

Available In Class 0.2 Accuracy



The Masibus PDH frequency transducer measures the line frequency of both sine wave and distorted waveforms of nominal input voltage with a fundamental frequency and converts this frequency input into a load-independent DC current or voltage output signal, with the output proportional to the measured frequency.

It is equipped with two load-independent, galvanically-isolated analogue outputs that can be configured for different input range and output curves.

Frequency transducers are having its application to interface with Controllers, Data-Loggers, PLC's, Analog / Digital Indicators, RTUs. It provides accuracy class 0.2 with up to 3 KV isolation.

Our Frequency transducer performs with exceptional accuracy, repeatability and reliability. In addition to being most accurate, our transducer are equally preferred by OEMs/ end users to other makes for their excellent stability over a long period of operation.

Features

- High accuracy class 0.2
- Confirms to IEC 60688
- Site-configurable inputs ranges & outputs
- Onsite selectable output type (DC current / DC voltage)
- Load-independent accuracy on all outputs
- Available in single or dual output type
- Programming port for easy configuration
- Fast response
- Excellent long term stability
- Good isolation & impulse resistance
- Transient protected
- DIN-Rail mounting

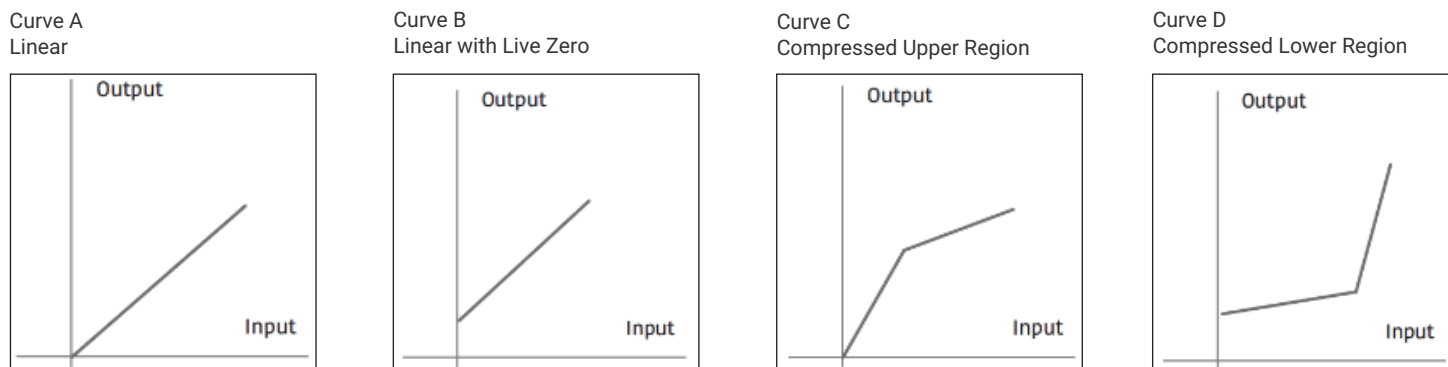
Applications

- Generating/transmission distribution stations
- Building management
- Load dispatch center
- Power equipment's OEMs
- HT/LT panels
- Substation automation
- SCADA
- Local and central monitoring systems
- Energy management system

TECHNICAL SPECIFICATIONS: FREQUENCY TRANSDUCER

Configuration		Single phase		Environmental	
		Input		Operating Temperature	0 to +55°C
Measuring Frequency range	40 to 70 Hz	Storage Temperature	-40° to 85°C	Relative Humidity	25-95% non-condensing
Nominal Input Voltage (Un)	57.7 V to 500 V	Warm up Time	15 minutes	Installation Category	CAT III for < 300V AC
Burden	<0.3VA at Un	Protection Class	II	Pollution Degree	2
Maximum Overload Voltage	1.2 x Un continuously 2 x Un for 1 s, with up to 10 repetitions at 10 s intervals	Ingress Protection	Housing : IP40, terminals : IP20		
Analogue output			Mechanical		
Accuracy Class	0.2	Mounting Type	DIN-Rail		
No. of Outputs	2	Dimension (in mm)	71H x 61W x 112D		
Output Type	4-20mA, 0-20mA, 0-10V, 0-5V, 1-5V DC	Case Material	ABS		
Maximum Load Resistance	≤750 Ω for 20 mA, ≥ 2 k Ω for 10 V (for each output)	Weight	0.4 Kg		
Response Time	<400mS	Connector Type	Metal screw		
Ripple	<0.4% peak to peak	Conductor Size for Terminals	≤ 4 mm ²		
Usage Group	I	Communication Ports			
Standards compliance			Mini USB type: For on-site configuration		
Standards	Accuracy as per IEC 60688				
Auxiliary Power Supply					
Power Supply	Universal aux. supply : 85-265VAC, 50/60Hz or 100-300VDC Burden : < 5.5VA (2.2W) DC aux. Supply : 20-60VDC Burden : < 2.2W				
Isolation (Withstanding Voltage)					
Between primary terminals* and secondary terminals**: At least 3000 V AC for 1 minute					
Between primary terminals*: At least 3000 V AC for 1 minute					
Between secondary terminals**: At least 500 V AC for 1 minute					
* Primary terminals indicate aux power terminals & input terminals.					
** Secondary terminals indicate analog O/P-1 and analog O/P-2.					
Insulation resistance: 200MQ or more at 500 V DC between Input/Output/Power/Case and grounding terminal					

Input - Output Signal Curves



Ordering Code

Model		Auxiliary Power Supply	Analogue Output			
			Output Type-1		Output Type-2	
PDH	U1	85-265VAC, 50/60Hz or 100-300VDC 20-60VDC	1	4-20mA	N	None
	U2		2	0-20mA	1	4-20mA
			3	0-5V	2	0-20mA
			4	1-5V	3	0-5V
			5	0-10V	4	1-5V
					5	0-10V

Cable Accessory (Extra Cost)

Part No.	Description
TT7SCC	Configuration cable