



1006S RPM INDICATOR

Monitor. Protect. Transmit





1006S RPM Indicator is for measuring the rotating speed of a turbine or other rotating machines; it accepts input signal from proximity sensor, it can also accept input signal from other type of proximity sensors, photoelectric sensors, limit switches, the unit has a isolated built-in 24V DC excitation supply to power the input sensors.

1006S RPM comes with 2 set points and relay outputs for alarm and Trip purpose, the set points and relay logic can be user set for over speed/under speed alarming and protection, the unit has built-in acknowledge logic for maintained as well as momentary alarms. Isolated analog output by way of current is available for interface with PLC/DCS systems, also isolated RS-485 Modbus RTU port is provided to incorporate the 1006S in a plant wide SCADA system.

1006S is compact, reliable and fit for most critical speed monitoring and protection, the unit can be programmed for number of events/rotation and displays the speed from 1 RPM to 9999 RPM on a bright 4 digit display.

Features

- Bright 4 digit display
- Programmable events per rotation
- 2 set point with relay output for alarm/trip
- Analog output for PLC/DCS interface
- Modbus RTU output on RS-485 for SCADA

Applications

- Turbine speed Monitoring & protection
- Rotating machines speed control

TECHNICAL SPECIFICATIONS

Input				Power Supply				
Input Type		sensor/ photoelectric		Supply Voltage			VAC, 50/60 Hz OR	
1 91	sensors/ lii	mit switch	es		-		DC (Optional)	
No. of Channel	1	1			nsumption	<10VA		
Pulse Per Rotation		1 to 60 (user set)			Isolation (Withstanding voltage)			
Max Pulse Input					Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute			
Input Signal level 0-24V DC, min on pulse width 100 uSec.				Between secondary terminals**: At least 500 V AC for 1 minute				
Input High	0				* Primary terminals indicate power terminals and relay output terminals.			
Input Low					** Secondary terminals indicate I/O terminals and communication port.			
Accuracy	±0.015% FS			Physical				
Resolution		1 RPM Display & Keys			Mounting Panel Mount			
	1.2			Dimension	าร	96(W) x 48	8(H) x 110(D) mm	
RPM				Panel Cut	out	92(W) x 44(H) mm		
Relay & Communicatio		Discrete/individual LEDs				260 gms (Approx)		
Operation Keys	Menu/enter, up, shift, esc.			Enclosure				
Output					Protection	IP20		
Alarm Output				Terminal 8	& Cable Size	Barrier type	e terminal 2.5mm²	
Relays 2						Environm	ental	
Function		Alarm/trip			Temperature	0 to 55 °C		
Logic		Normal			emperature	0 to 80 °C		
Contacts	,	C, NO			Humidity 20 to 95 % at RH non-condensing			
Rating	5A@230VAC / 30VDC							
Response Time				_				
Delay 0-9999 sec								
Retransmission output								
Current 4-20mA @ 600Ω Max.								
Accuracy	Accuracy +0.25% of FS							
,	$24VDC(+10\%) \otimes 50mA$							
Sensor Excitation Sup		(Current limited)						
Communication output	(
Interface RS-485								
Protocol	Modbus-F							
Baud Rate	9600, 192	9600, 19200, 38400						
Ordering code								
	Model	Αι	ixiliary Power Supply	Retran	Retransmission Output		Communication Output	
	1006S	XX		Х		Х	-	
		U1	85-265 V AC	Ν	None	N	None	

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4-20mA

U2

18-36 V DC

RS-485

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