For reliable measurement, control and indication of rotational speeds

Programmable speed monitor. Flexible monitoring, reliable protection.

<table>
<thead>
<tr>
<th>Ordering information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.  Type</td>
</tr>
<tr>
<td>Supply Voltage 18 - 36 VDC:</td>
</tr>
<tr>
<td>5810.100  CR  Speed monitor with one relay, without analogue output</td>
</tr>
<tr>
<td>5810.200  CRR  Speed monitor with two relays, without analogue output</td>
</tr>
<tr>
<td>5820.100  CRA  Speed monitor with one relay, with analogue output</td>
</tr>
<tr>
<td>5820.200  CRRA  Speed monitor with two relays, with analogue output</td>
</tr>
<tr>
<td>Supply Voltage 10 - 36 VDC with approvals for ship board use:</td>
</tr>
<tr>
<td>5813.100  CR  Speed monitor with one relay, without analogue output</td>
</tr>
<tr>
<td>5813.200  CRR  Speed monitor with two relays, without analogue output</td>
</tr>
<tr>
<td>5823.100  CRA  Speed monitor with one relay, with analogue output</td>
</tr>
<tr>
<td>5823.200  CRRA  Speed monitor with two relays, with analogue output</td>
</tr>
</tbody>
</table>

If required, the instrument parameters can be programmed to a customer’s specific requirements, and supplied with a customer reference number on the rating plate. Use the order form on the Internet under www.rheintacho.com or call us.
Underspeed monitoring with run-up bridging
Monitoring does not start until after the start signal of the starting-bridge has de-energized and the starting bridge time has elapsed.

Overspeed monitoring with reset switching delay
Once the speed has fallen below the switch back value and the switch back time delay has expired, the relay switches to its normal status again.

As versatile as it is adaptable
The speed monitor has numerous applications in many areas of technology, whether it be for protection of people, machines or manufactured products, to ensure that a plant operates at optimum efficiency, or for speed-dependent switching of system functions in a process.

Application examples are: internal combustion engines in power station and marine applications; gas, water and wind turbines; pumps, mixing plants and conveyor systems; paper, foil and textile production plants; machine tools and processing centres. Please utilize our free application engineering to learn of the significant benefits that ROTAS can provide for your application.

Extremely flexible and reliable
The programmable speed monitor can be configured in many different ways to meet a wide variety of application requirements. Its functional features allow the alarm situation to be clearly defined and safely detected.

Scaleable analogue output (optional)
An analogue output is available on all models.

Variable scaling
15 different measurement units variable range

Easy to use
simple 6 key operation

Variable signal input
> 2-wire and 3-wire sensors
> PNP, NPN or sine wave signals
> programmable trigger threshold

Speed permanently in sight
The programmable speed monitor monitors the motion of machines and systems. It detects the signals of most speed and motion sensors. If the measured value exceeds or falls below a preset limit value, the relay is automatically switched and the alarm function connected to it is activated. The following types of monitoring are possible:

Over speed monitoring with reset switching delay
Once the speed has fallen below the switch back value and the switch back time delay has expired, the relay switches to its normal status again.

Under speed monitoring with run-up bridging
Monitoring does not start until after the start signal of the starting-bridge has de-energized and the starting bridge time has elapsed.

Tech data

Frequency range 0.01 Hz … 20,000 Hz
Accuracy +/- 0.03 % of full scale +/- 1 digit
Temperature coefficient +/- 0.01 % of full scale
Switching delay < 20 ms + measuring periods entered
Supply Voltage / Current 18 ... 36 VDC / < 160 mA
... with DC/DC converter 10 ... 36 VDC / < 120 mA
Signal input Trigger level On/Off adjustable
Min. pulse duration 20 μs
Sensor supply 12 VDC, max. 60 mA
"Active starting-bridge" input Trigger level On/Off > 2.5 / < 1.0 V
Relay outputs (one, optional two relays)
Switching voltage AC: ≤ 250 V / DC: ≤ 42 V
Nom. switching current max. AC: 5 A / DC: 2 A
Analogue output (optional)
Accuracy +/- 1.0 % of full scale
Maximum burden 400 Ω
Installation conditions
Operating temperature -25 ... +70 °C (-13 … +158 °F)
Protection (IEC 529) IP 20 (installation in enclosure)
Vibration (IEC 68-2-6) 0.7 g at 1 ... 100 Hz
Mounting
Standard rail-mounting case for 35 mm (1.378 inch) DIN-rail
Approvals
All instruments are CE compliant.

The models with DC/DC converter fulfill the requirements of the most important marine classification societies (for example DNV GL).
On request, we will gladly provide details of those countries where there are corresponding approvals.

We are known as the specialists for customized solutions for rotational speed measurement. Less well-known is what our success is due to.
Rheintacho is a family-owned company and intends to remain as such. Our company policy is to foster familiarity among our employees; this means an inclusive approach, emphasizing that each employee has an equal part to play in the team as a whole.

Our employees feel at home in this atmosphere of acceptance and trust. A select team in which everyone has high-level technical expertise and a sense of responsibility.

With flat hierarchies, short routes and eye-level communication, we can fully concentrate on our priorities: customer satisfaction, innovation, flexibility, quality, efficiency, growth.

It is our goal to provide the best rotational speed measurement and control product at a competitive price for whatever requirement our customers may have. For this, there are other essential features as well as much co-operation as possible, reliability and continuity.

Because we do this successfully, we approach our work with pleasure and passion – even under pressure. This is how we intend to continue growing, in a harmonious and sustainable fashion in terms of employees, sales, innovation and challenges.

Find a challenge for us.