INSIDER

JAQUET
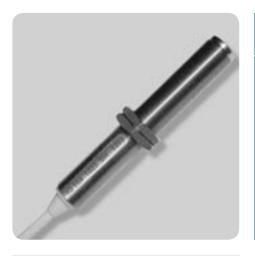### TECHNOLOGY GROUP

Introducing IQ Speed Sensor™

Intelligent enough to be simple.

JAQUET's ground breaking **IQ Speed Sensor™** represents a truly new generation of intelligent sensor solutions, offering both new traditional and functions.

Their factory programmable microprocessor enables the **IQ Speed Sensor™** to perform as a complete speed sensing and monitoring solution, offering 10 different speed signal related functions – plus a temperature measurement capability. You can either select just one – or a combination of 4 different functions.

IN CHARGE OF SPEED

Now you only need one sensor to meet your entire speed monitoring and signal treatment system needs – the **IQ Speed Sensor™** - The intelligent solution that is simple to use, compact and cost -efficient.

IQ SPEED SENSOR™
Multiple applications

- IQ Speed Sensor™ is more than a sensor - it's a complete speed monitoring and signal treatment system.
- Customizable in hundreds of ways to meet your exact needs
- Highly integrated and robust design for demanding ambient conditions
- Easy to mount – the only thing you need to install is a sensor
- Very cost-effective solution in both low and large quantities

TURBINES

JAQUET has a long experience and wide product line in turbine overspeed protection systems; from single channel to multichannel systems. IQ Speed Sensor™ adds another level:

- cost effective monitoring and over speed protection of micro turbines
- simulated frequency output provides high level of diagnostic coverage
- Achieve Safety Integrity Level 4 when used with Jaquet's FT 3000
- Frequency division option if speed signal too high for subsequent electronics

HYDRAULICS

IQ Speed Sensor™ is an ideal sensor for hydraulic applications:
- Over speed detection to protect pumps against empty pipes
- Combined over speed and temperature protection of pumps and compressors
- The monitoring of speed regularity allows a process quality control
- An output signal filtered against vibration allows very slow hydraulic process measurement
- The optional analogue output of speed allows accurate regulation

AUTOMOTIVE
JAQUET GROUP is now QS 9000 certified.

QS 9000 is an automotive industry specific quality management system developed by the major car companies.

JAQUET is a leading supplier in specific applications in the automotive industry. For example: For turbochargers with Variable Geometry and other control technologies JAQUET has developed two different sensor technology solutions:
  - High temperature sensor detecting a shaft flat.
  - High frequency sensor measuring compressor blades for lower cost and higher quantity applications.

DIESEL ENGINES

IQ Speed Sensor™ complements JAQUET's engine speed measurement chain:

- Measure speed and oil temperature with one sensor
- Then add in over speed control
- Together with regularity measurement
- And you have a complete measurement, protection and diagnostic solution
- And that's just one of the possibilities!

MORE IQ ?

These are just some of the ways that the IQ Speed Sensor™ can be used.

We would love to hear how we can create additional functions that would enhance your product offerings.

For information on other JAQUET products please visit our website at www.jaquet.com

IQ SPEED SENSOR™
Function menu

1. Direct speed frequency
2. Vibration free frequency
3. Direction of rotation signal
4. Simulated frequency
5. Signal with frequency division
6. Second phase shifted speed signal
7. Limit value; speed and/ or temperature
8. Speed in one direction
9. Speed with direction
10. Speed regularity
11. Temperature

JAQUET GROUP is a global engineering and manufacturing company of speed sensors and signal treatment systems specialised in providing complete speed measurement solutions in demanding ambient conditions. Our main markets are automotive, power generation, railway, marine, mobile hydraulics and industrial machinery. JAQUET is headquartered in Basle, Switzerland and has subsidiaries in Belgium, Germany, the Netherlands, United Kingdom, and in the United States along with a worldwide distributor and end-user service network. JAQUET GROUP is ISO 9001 and QS 9000 certified. For more information please e-mail us at info@jaquet.com

IN CHARGE OF SPEED