



Yokogawa Launches ROTAMASS Total Insight Product Portfolio

– Optimizing operations and reducing maintenance costs at all phases of the product lifecycle –

Johannesburg, South Africa – 24 May 2016 - Yokogawa announces the global release on this date in all markets other than Japan* of ROTAMASS Total Insight (TI), a new portfolio of four-wire Coriolis mass flowmeters and transmitters. This new Coriolis mass flowmeter product platform was developed based on a Total Insight concept that seeks to optimize operations and reduce maintenance costs at all phases of the product lifecycle.

* The Japan release is set for the second quarter of fiscal year 2016.

Development Background

Of the two main types of flowmeters that are in use today — the volume flowmeter and the mass flowmeter — the latter is generally more accurate as its measurements are less susceptible to variations in temperature and pressure. Coriolis mass flowmeters are versatile and highly accurate instruments whose utility extends beyond mass flow, inline density, and temperature measurement. They have evolved into multi-functional devices that can measure concentrations, function as net oil computers (NOC), and even measure heat transport. Our customers expect first-class performance from these instruments in demanding process control applications that involve liquids with high viscosity, entrained gas, and two-phase flows.

Rota Yokogawa, a Yokogawa subsidiary in Germany, has been producing and supplying ROTAMASS series mass flowmeters to the global market since 1993. The company continues to refine these products to add more value and future proof the investments that our customers make. By giving our customers greater insight into their processes, our Coriolis flowmeters help them improve the efficiency and flexibility of their operations and reduce maintenance costs at every stage of the product lifecycle.

Product Features

Designed based on a unique philosophy that emphasizes full product lifecycle support, ease-of-use, and reduced total cost of ownership, the ROTAMASS TI product portfolio consists of six new sensor product lines and two new transmitters that can be configured to suit the specific requirements of an application. At the heart of this design is the concept of gaining “Total Insight” into a plant’s operations. The new sensor product lines have each been designed for specific application requirements and process conditions, be it high pressure or high temperature applications or highly challenging processes involving hygienic or cryogenic conditions. The new general-purpose (Essential) and high-end (Ultimate) transmitters all come with an AC/DC universal power supply and can be flexibly configured to handle a range of functions.

1. Introduction phase solution – Selection tool and expert guide

Yokogawa has developed a new tool that will assist our customers in selecting the optimal sensor and transmitter combination for specific applications. In addition, an online expert guide and a built-in configuration wizard are provided to ensure quick and error-free commissioning.



2. Operational phase solution – Process Guard function for event management

We have added a Process Guard function that can be used to select event patterns for the issuance of alarms, configure the triggering of data logging based on alarms or manually set points, and specify whether data is to be backed up to a microSD card for use in root cause analysis.

3. Post-implementation phase solution – Facilitating preventive maintenance and advanced flexibility

A Maintenance Manager function that includes Yokogawa's patented Tube Health Check technology monitors all key sensing elements while the flowmeter is in use, yielding data that can be used to minimize disruptions and thereby reduce maintenance costs. All data can be stored on a microSD card for easy data transfer. A new Feature On Demand (FOD) option is available that allows users to upgrade already installed flowmeters by adding new product functions such as the Tube Health Check and a concentration measurement function.

Andreas Dobratz, the managing director of Rota Yokogawa, offered the following observations about these new products: "Yokogawa's new Coriolis mass flowmeter portfolio, ROTAMASS TI, sets a new standard in the industry. ROTAMASS TI offers improved specifications under real conditions, supporting an increased number of applications. The holistic approach of the Total Insight philosophy supports the customer in all stages of the product lifecycle, significantly improving operations and plant maintenance."

Masatoshi Nakahara, a Yokogawa director and executive vice president who is head of the IA Platform Business Headquarters, commented: "With its Transformation 2017 mid-term business plan, Yokogawa has set forth a number of strategies for its industrial automation business. One of these strategies is to enhance and develop the platform products that are at the core of our solutions. Based on our new Total Insight concept, ROTAMASS TI will generate new value for our customers."

Press Release

ROTAMASS TI portfolio

	Application / process conditions	Maximum flowrate	Transmitter	Accuracy	Remote / integral types
ROTAMASS prime	General- purpose	2.3-76 t/h	Ultimate	±0.1% (liquid) ±0.5% (gas)	Both
			Essential	±0.2% (liquid) ±0.75% (gas)	Both
ROTAMASS supreme	General- purpose	5-170 t/h	Ultimate	±0.1% (liquid) ±0.5% (gas)	Both
			Essential	±0.15% (liquid) ±0.75% (gas)	Both
ROTAMASS giga	General- purpose	300-600t/h	Ultimate	±0.1% (liquid) ±0.5% (gas)	Both
			Essential	±0.2% (liquid) ±0.75% (gas)	Both
ROTAMASS nano	Pharmaceutical/ refrigeration	0.04-1.5t/h	Ultimate	±0.1% (liquid) ±0.5% (gas)	Remote
			Essential	±0.2% (liquid) ±0.75% (gas)	Remote
ROTAMASS hygienic	Food & beverage/ pharmaceutical	2.3-76 t/h	Ultimate	±0.1% (liquid) ±0.5% (gas)	Both
			Essential	±0.15% (liquid) ±0.75% (gas)	Both
ROTAMASS intense	High pressure	5-50 t/h	Ultimate	±0.1% (liquid) ±0.5% (gas)	Both
			Essential	±0.15% (liquid) ±0.75% (gas)	Both

About Yokogawa

Yokogawa's global network of 92 companies spans 59 countries. Founded in 1915, the US\$3.7 billion company engages in cutting-edge research and innovation. Yokogawa is active in the industrial automation and control (IA), test and measurement, and aviation and other businesses segments. The IA segment plays a vital role in a wide range of industries including oil, chemicals, natural gas, power, iron and steel, pulp and paper, pharmaceuticals, and food. For more information about Yokogawa, please visit www.yokogawa.com.

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