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**Flexible, reliable and inexpensive: 984M.3x3104b
and 984M.3x3114b**

Beck presents new differential pressure measuring transmitter with an LED display on a microprocessor basis with selectable output signal and pressure range selection facility



Steinenbronn/Germany, October 2006 – The German company Beck GmbH Druckkontrolltechnik is updating its range of differential pressure measuring transmitters with the two models 984M.3x3104b without and 984M.3x3114b with an LED display. Thanks to their new and ultra-simple switching facilities, both variants are extremely versatile in practical applications. This pays off particularly when used in such applications as air conditioning and ventilation technology, filter monitoring and the control of air flows. Users enjoy the benefits of reduced operating costs and increased operational reliability due to the constant monitoring and regulation of ventilation systems. Both measuring transmitters are being presented for the first time at the IKK trade fair in Nuremberg from 18 to 20 October 2006 and will be available worldwide from early-November.

The series 984M differential pressure measuring transmitters cover a pressure range from 0...100 Pa to max. 0...250 kPa. To ensure optimum adjustment to the respective pressure-related application, the models are equipped with multiple jumpers.

A new feature is the **selectable output signal** of 0...10 Volt or 4...20mA, which the user himself can set by means of a jumper on site during the installation.

The new model can also be **automatically zeroed** quite easily by the user himself. This is done by simply disconnecting the measuring transmitter from the pressure and pressing a button. The once time-consuming task of zero point adjustment by means of a potentiometer has been dispensed with in favour of simple, user-friendly controls.

The ability to select between two **different pressure ranges** is already known from the previous model. Version 984M.323104b, for example, allows the user to select between the pressure ranges 0...250 and 0...500 Pascal.

The components also exhibit their flexibility in terms of the **response time of the output signal**. By fitting a third jumper, it is possible to extend the minimum reaction time from 100 milliseconds to 1 second. This is particularly important for applications in which the registration of pressure surges or fluctuations lasting just a short time is not desired.

A key advantage offered by the 984M.3x3114b model is the option of equipping it with a 3.5-digit **LED display**, whose brightly illuminated red figures can also be easily read in difficult conditions. In the latest version, the user himself can retrofit this display on site by simply plugging it in.

Both models can be operated either with **24V DC voltage** or **24V AC voltage**. Terminal screws are used for making the electrical connection.

As well as the analogue voltage output, the 984M.3x3104b model also features an **additional switching output**, which is designed in the form of a transistor output. The switching threshold can also be freely selected within the measuring range by the user simply by pressing a button; an LED displays the connected status of the switching output.

The differential pressure measuring transmitters, which are suitable for use in air and non-aggressive gases, operate with a reliable piezoresistive pressure sensor. Thanks to this **self-compensating measuring cell**, which automatically corrects any positional error, the subsequent installation position is irrelevant.

The sensor is housed inside the **tried-and-tested casing** that is already known from the **930 Climair® differential pressure switches**, and which provides protection against splashed water as per IP54 (EN 60529). It can be fitted using four external self-tapping screws without opening the cap.

For the process connection, two hose nipples each with a 6 mm diameter are provided. The cable bushing is produced in a standard M20x1.5 screw connection.

Availability

All the versions of the 984M will be available worldwide via Beck GmbH in various forms of packaging from November 2006: collective packages with 45 pieces or in individual packages including accessories, such as fastening brackets in an S and L shape, connecting kits, duct connecting nipples, etc.