

# Information on EN 50379 (portable measuring instruments)

On March 01, 2007 EN 50379 for portable measuring instruments comes into effect. This standard covers devices used to determine the gas concentration and other combustion parameters in the installation and maintenance of domestic and industrial heating systems with standard fuels.

The standard defines the design, testing and operating requirements for portable devices, which are used to determine specific flue gas parameters such as the concentration of individual gas components, the temperature and/or the pressure in combustion processes in order to ensure compliance with national directives regarding the operating behaviour of combustion systems.

The standard is divided into three parts:

## **Part 1: General requirements and test procedures**

**EN 50379-1** specifies the general requirements concerning the design, testing and operating behaviour of devices used for short-term measurements to determine specific flue gas parameters such as the concentration of individual gas components, the temperature and/or the pressure in combustion processes in order to ensure compliance with national directives regarding the operating behaviour of combustion systems using commercially available fuels in domestic and industrial applications.

## **Part 2: Requirements concerning the operating behaviour of devices used in statutory measurements and assessments**

**EN 50379-2** applies to devices which are used in statutory measurements or measurements specified by regulations. National legislation covering the operating behaviour of combustion systems exists in several European countries. Authorised inspectors use such devices to measure flue gas parameters and verify the compliance of combustion systems with national directives.

Since the results of such measurements have statutory consequences, there are **stringent requirements concerning the accuracy** of these devices. Therefore, EN 50379-2 specifies maximum values for measuring inaccuracy. Tests with real flue gases constitute an essential part in the proof of suitability for statutory measurements. The determination of the measuring inaccuracy must be demonstrated and confirmed with internationally approved methods for the entire measuring range.

## **Part 3: Requirements for devices in non-regulated areas in the maintenance of gas fired heating installations**

**EN 50379-3** applies to devices which are used in non-statutory applications. The requirements are **less stringent because the devices** are used in determining whether a gas fired combustion system may require maintenance or in setting up a gas fired combustion system during maintenance. The measuring inaccuracy does not have to be determined for such devices. **These devices do not comply with the technical measuring specifications for measuring devices as required in part 2.** Therefore, devices certified according to EN 50379-3 are not suitable for measuring combustion systems.

The standard was ratified on March 01, 2004. Binding dates for all member states:

September 01, 2004 – Day of announcement

March 01, 2005 – Publication as a National Standard

March 01, 2007 – Withdrawal of contravening National Standards

**AFRISO- EURO-INDEX is the first European manufacturer to have its complete range of flue gas measuring instruments certified according to EN 50379-2.**

**All flue gas measuring instruments as well as the „Blue Line“ pressure and temperature measuring instruments meet the stringent requirements of EN 50379-2.** The TÜV quality mark (OCTOGON) confirms EN 50379-2 compliance and can only be used, if the production is audited by TÜV-SÜD at regular intervals. This line of measuring devices with the TÜV-OCTOGON mark is backed by experience and competence. High quality pays off – both price/performance ratio and cost of ownership are convincing. High quality measuring devices also help to avoid conflicts and problems in terms of product liability claims. **All „Blue Line“ instruments meet the stringent requirements of EN 50379-2 and can continue to be used without restriction after March 01, 2007.**