

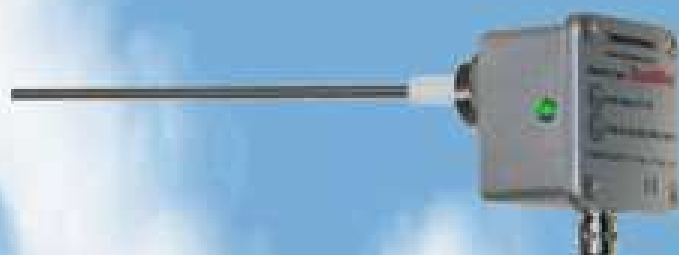
# Rilevatore di Polvere Triboelettrico Triboelectric Dust Detector

## DustMini

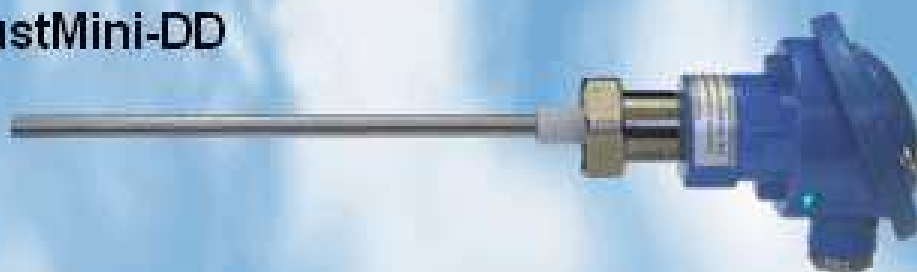
### *High-Tech*

### *Exclusive Performance*

DustMini



DustMini-DD



DustMini-LT



DustMini-HT



**Probe for the detection of dust emissions from  
filtration Plants**

**[TRIBOTECNA]**

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- The latest generation of our detectors at low cost, performs in the world market the best characteristics of sensitivity, easy to calibrate and to use.
- The set-up is automatic, by acquiring and storing the average value of the emissions under normal working conditions of the filter, with two possible periods of time for the average calculation: 10' or 30'.
- The probe is powered through the auxiliary module. On this module the acquisition can be started. It regenerates the static signals of alarms and it allows to set the parameters of calibration. The auxiliary module allows to manage the probe remotely, without having physical access to it. It is very useful when the probe is located in positions which are difficult to reach, like it happens in the most of cases.
- The probe has two static outputs processed with **Moving** or **Real average** and selectable period; the Real average allows to calibrate the detector in  $\text{mg}/\text{Nm}^3$ .

**OUT 1: Moving Average:** the output is active for emissions greater 5 or 7 times of the reference value;  
**Real Average:** for emissions 20 times greater than the reference value.

**OUT 2: Moving Average:** the output is active for emissions greater than 20 times the reference value;  
**Real Average:** for emissions 2, 3, 4, 5, 6, 8, 10, 15 times greater.

### TECHNICAL FEATURES

- **Sensitivity:**  $> 0.1 \text{ mg}/\text{Nm}^3$ .
- **Possibility of pre-calibration:** For repetitive plants and same types of dust (Factory setting )
- **Minimum velocity of the process flow :** 4 m/s.
- **Process temperature:** DustMini -/DD/LT  $-20^\circ\text{C} \div +70^\circ\text{C}$ . ( $-4^\circ\text{F} \div +158^\circ\text{F}$ )  
 DustMini-HT up to  $400^\circ\text{C}$  ( $+752^\circ\text{F}$ ) It's recommend the use of an anti-condensation kit.
- **Power supply Probe:**  $12 \div 27 \text{ Vcc}$ . 30 mA
- **Power supply Auxiliary module:** 115/230 or 24/48 Vac.
- **Static output Probe:** Transistors NPN 100 mA max, with emitter referred to GND.
- **Outputs Auxiliary module DMA-M:** Relay SPDT 5 A. 230 Vac (non inductive load)
- **Outputs Auxiliary module DMA-M-ALL:** Buzzer, Led, Relay with N.O. contact, Ack button
- **Led indicator on probe:** three colors for Normal, Alert, Alarm state.
- **Electrode:** stainless steel, length: DustMini -/DD 210 mm, DustMini-LT / HT up to 1.5 mt
- **Housing Probe:** aluminium diecast, protection IP66.
- **Housing auxiliary module:** ABS, 110 x 100 x 70 mm
- **Connection cable:** shielded 4 couples twisted AWG24.  
 DustMini: lenght 2 mt. extendable up to 200 mt.  
 DustMini-DD/LT-HT: lenght up to 200 mt.

### Auxiliary Module

