

## Environmental Sampling Probe for cabins and mobile vehicles for environmental monitoring

# ALTAIR

### MAIN FEATURES

- ⊗ Made entirely of inert material - PTFE;
- ⊗ Available in PTFE + NAFION™ version for correct air sampling even in conditions of high humidity;
- ⊗ Extreme ease of use;
- ⊗ Base 8 gas outlets; also available in version from 10 to 20 gas outlets;
- ⊗ Measurement of gas temperature with thermo measurement of the sample by means of a heated thermocontrolled line;
- ⊗ Humidity control option: The humidity sensor monitors the humidity of the sample and activates the humidity control system to prevent condensation in the sampling tubes to the analyzers;
- ⊗ Easy maintenance of gas withdrawal manifold and gas withdrawal line;
- ⊗ High prevalence tangential fan;
- ⊗ In-line flow sensor for constant control of the air intake system complete with digital contact for immediate signaling of alarm status;
- ⊗ Heating activation led;
- ⊗ Alarm signalling led with D/O contact for remote control;
- ⊗ RS-485 communication - remote control;
- ⊗ Self-contained intake system capable of ensuring a residence time of sampled air in the sampling system of less than 3 seconds.

**ALTAIR** is the innovative sampling system designed by **TCR Tecora®** to take air samples in accordance with DM 30/03/2017 "Quality assurance procedures to verify compliance with the quality of ambient air measurements, carried out at measuring network stations".

**ALTAIR** manages the temperature by means of a thermoregulator with set-point settable by the operator and the main sampling flow automatically.

**ALTAIR** is available in the **ALTAIR+** version which, thanks to a drying technology well established in gas analysis, allows the dehumidification of the sample in order to avoid any stagnation of condensation that could compromise the gas analysis.

A decrease in ozone measurements during the summer period of about 20-30 ppb it is recognized due to the formation of condensation in traditional heated sampling lines. **ALTAIR** is designed to overcome this problem by using a sampling line with a double **NAFION™** core. The sampling line is therefore maintained at programmable temperature and humidity.

**Comparison with traditional lines allows to increase the quality of the sample at the analyzer:**

CO	NO	NO <sub>2</sub>
SO <sub>2</sub>	O <sub>3</sub>	BTX

Locking flange on cabin roof or mobile vehicle

#### Complaint with:

D.Lgs 13 Agosto 2010 n.155  
DM 30/03/2017  
UNI EN 14211:2012  
UNI EN 14212:2012  
UNI EN 14625:2012  
UNI EN 14626:2012  
UNI EN 14662-3:2015  
US EPA 40 CFR App. E Part. 58

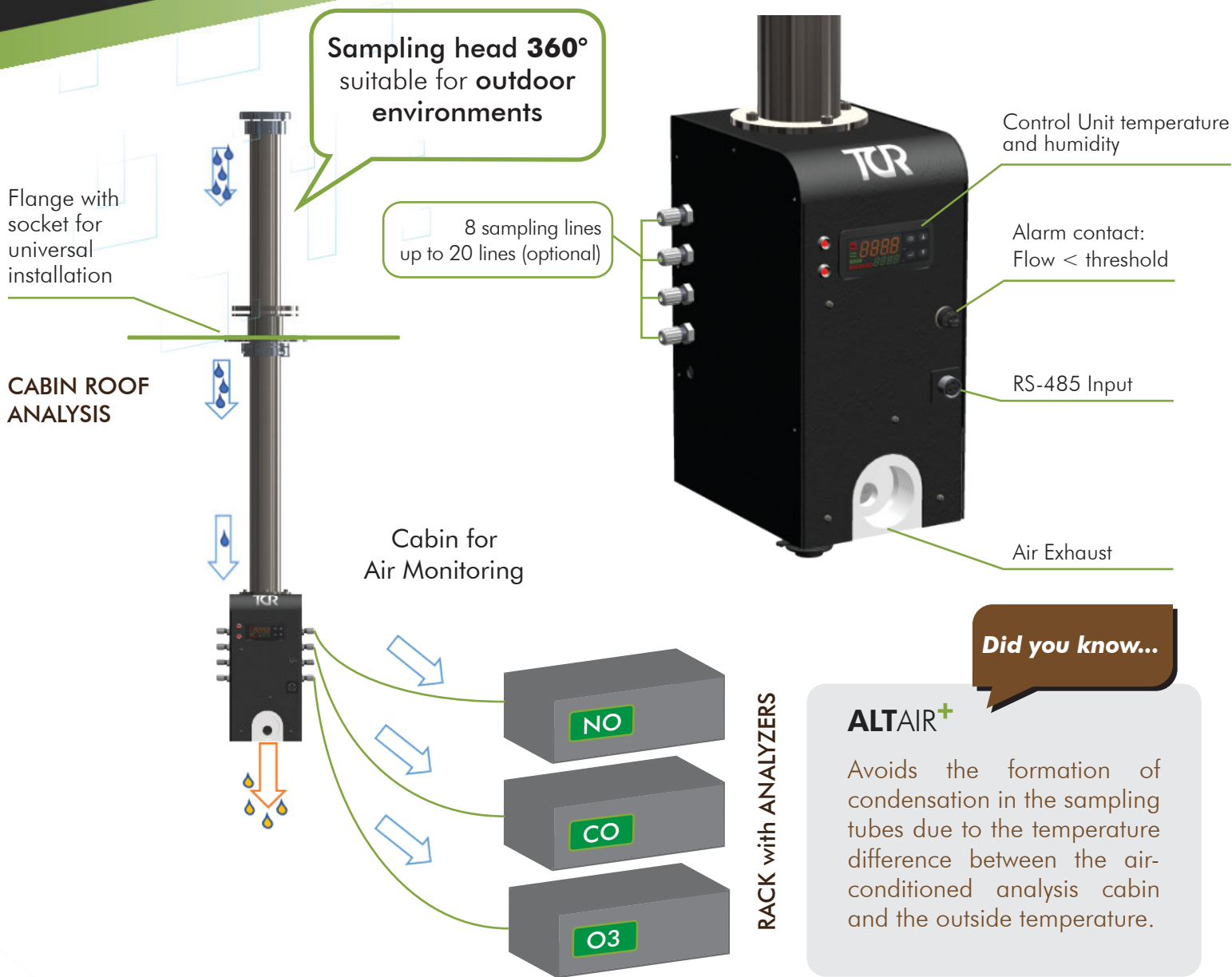


### ALTAIR



Outer Material  
AISI316L





### Did you know...

#### ALTAIR<sup>+</sup>

Avoids the formation of condensation in the sampling tubes due to the temperature difference between the air-conditioned analysis cabin and the outside temperature.

**Fast Maintenance**  
Withdrawal line and manifold gas distribution

The **Nafion™** membranes in **ALTAIR<sup>+</sup>**, are not chemically resistant but also water permeable, allowing the sample to be transported to the analyzer free moisture and maintaining its natural chemical composition.

**ALTAIR<sup>+</sup>** automatically manages the air intake and the exchange flow of the humidity abatement system.

#### CODES:

AA99-010-1001SP	ALTAIR - 8 Out Gas - Temperatura controllata PTFE line
AA99-010-1002SP	ALTAIR - 8 Out Gas - Temp.controll. - 1 Out Gas Umidità controllata
AA99-010-1003SP	ALTAIR - Opzione 10 Out Gas
AA99-010-1004SP	ALTAIR - Opzione 20 Out Gas
AA99-010-1005SP	ALTAIR - Opzione Qtà 1 Out Gas deumidificata opzionale aggiuntiva

**Materials Available**

**PTFE  
VETRO-PYREX**

