

INDUSTRIAL EMISSIONS

Single and Double line

TPROBE is a new entry of **TCR TECORA G10X** line, dedicated to all professionals that need high perfomances during their sampling activities and full compliancy with all standards.

TPROBE is a sampling probe with temperature controlled heated body with a filter element maded of sintered stainless steel, sintered ceramic or microfiber with porosity 1-5-10 micron. With **TPROBE** is possible to couple a heated main tube with adjustable temperature and with different lengths upon request.

At the input, on the stack side, a sintered filter can preserve the second filter (installed in the sampling/dilution chamber) from "coarse" particluate that could be clog up fastly.

Positioned at 90° from the main tube, another sampling tube can be installed and the out stack end of it, where is connected to a 25 mm membrane heated filter (quartz fiber, glass fiber, PTFE) that assure a high filtration level.

Anyway is still possible to install the second filter inside the heated chamber.

DILUTION

A stainless steel connector is available for zero/span input to be fully compliant to the most important standard related to on line analysers. This is very important to be able to check all system leackage.

Same port can be used to dilute the sample gas.

Fundamentally, **TPROBE** is the multi-role probe that can be used for any sampling need!



Probe and Filterholder Autonomously Heatable

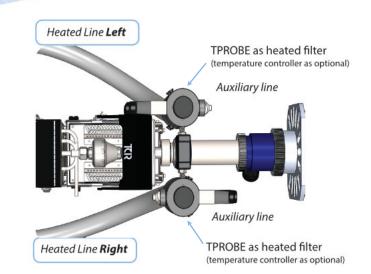
Compliant with standards:

Methods:	
EN 15058:2017	EN 13649:2015
EN 12619:2013	EN 1911:2010
EN 14792:2017	ISO 21877:2019
EN 14789:2017	EN 13211:2003
EN 14791:2017	CEN/TS 17286:2019
EN 14790:2017	ISO 11338-1:2021

Main Features

- Single connector to supply all heating of the probe
- Digital temperature controllers for both tube and chamber, temp. Adjustment up to 180 °C;
- Self-heating version with 180 °C fixed set point is available;
- Special system to assure 100% cold points free. No condensation occur in all the probe parts;
- Removable cover allow a simple and fast heated line connection, protecting it from accidental PTFE tube bending or tear of it due to unintentional operations or weigth of the heated line if not exterally fixed;
- Thimble filter available in case of worst sampling situations;
- Available in stainless steel, Titanium, Hastelloy, Monel or PTFE;
- TPROBE can be be coupled with our ROTATIVE PROBE as single heated filter to sample gases contemporarily to isokinetic sampling.

TCR TECORA POLLUTION CHECK



TPROBE as heated filter for ROTATIVE PROBE.

The system is composed by the three main components:

Heated probe

Heated box to to fit the 47 or 90 mm filetr holder for isokinetism sampling

Plate to support dioxin condenser or cooled bath for impingers

Example

Typical configuration with "in-stack" 47 mm membrane filter holder. Ther are two TPROBE heated filters body installed on the left and right to use with on line analyzer like FTIR, FID or multicomponents analyzers.

Coarse sintered stainless steel filter Sintered schroud, ceramic filter or special paper filter to fit inside

Quality and Professionality

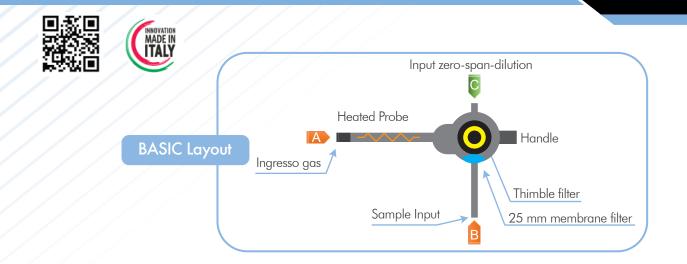
TPROBE is the results of years of tests and "in field" activities applied to all the probes **TCR Tecora** produced over the last 30 years.

The main objective of **TPROBE** is to assure the integrity of the sample during all the sample phases. Everybody know the importance to mantain the gas above the dew point during sampling to avoid any loss of pollutants that, condensing, cause an uderestimation of the measured gas.

Another fundamental factor is the use of inert materials and "zero leackege" connections. We use only swagelock type connectors, used in any industrial application where a perfect sealing is mandatory.

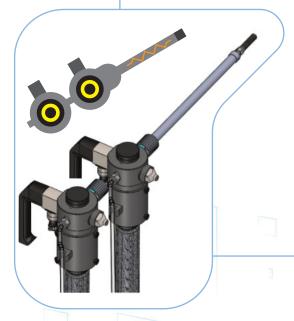
Different filters can be installed: this means total flexibility on particulate selection dimensions and sampling time from hours to days uninterruptedly.

Last but not least, incrdible symplicity on filter change: in less than one minute you are ready to restart the sampling!







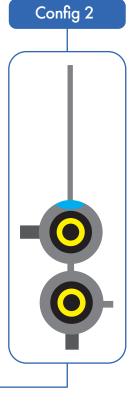


Double Independent Sampling Lines

In case of one stack flange availability is possible to couple two TPROBE in order to connect two analyzers with indipendent flow and filtration grade (depending of type of analyzer and pump installed).

Config 1 is related to heated chambers and heated tubes with dedicated heating while.

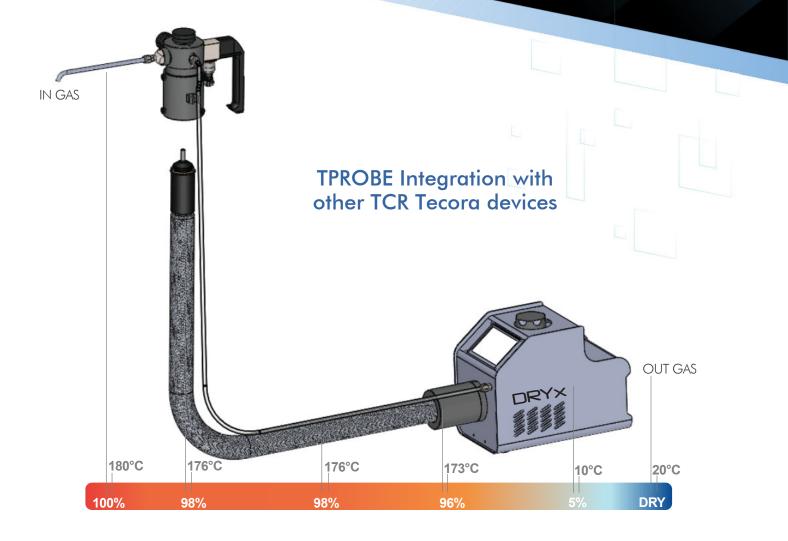
Config 2 is regarding cold tube and heated chambers.





TCR TECORA POLLUTION CHECK





Application Standard with TCR TECORA Rotative Probe

EN 13284-1:2017 EN ISO 16911-1:2013 EN 1948-1:2006 EN 14385:2004 EN 13211:2001 EN 14790:2017 EN 15058:2017 EN 14792:2017 EN 14789:2017 EN 14791:2017 EN 12619:2013 PM - Speed and Flow Rate PM - Speed and Flow Rate PCDD/F e PCBs Metals - Mercury Metals - Mercury Water Vapor Gas Gas Gas Gas TOC (FID)



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Call_{us!}

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