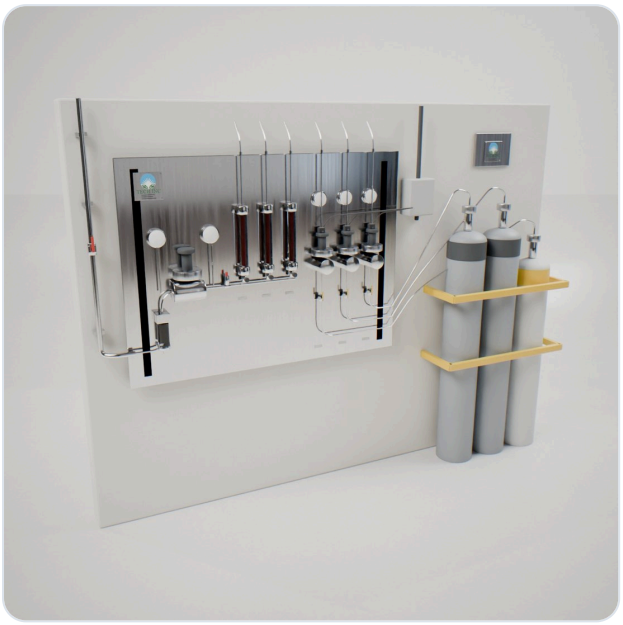
PRODUCT DATASHEET

Nitrogen Purge and Calibration Gas Panel

Purge and calibration gas panel for syngas analysers





DETAIL – REGULATORS AND FLOW METERS

OVERVIEW

The Tech Inc. Nitrogen Purge and Calibration Gas Panel (model TI-PGPHP) supplies regulated nitrogen and calibration gases to the syngas analyser systems of gasification plants. Nitrogen purges sample lines and analyser housings, makes the sample path inert before maintenance and drives probe blowback. Calibration gases are switched to the analysers on demand or on a set schedule, keeping readings accurate between services.

MODELS AND CONFIGURATIONS

- **TI-PGPHP** – nitrogen purge and calibration-gas panel for syngas analyser systems.
- **Open panel or enclosure** – wall or stand mounted, or in a weatherproof enclosure, to client specification.
- **Manual or automatic calibration** – gases selected by hand, or sequences run by the analyser system or PLC.

TYPICAL DESIGN DATA

Purge gas	Nitrogen, from plant supply or cylinders
Calibration gases	Zero and span gases to the analyser maker's requirements
Outlets and gases	Number to client specification
Pressures and flows	To the probe and analyser requirements, or to client specification
Wetted materials	Stainless steel tubing and fittings
Control	Manual, or automatic with solenoid valves and PLC interface
Hazardous area	Electrical equipment selected for the hazardous-area classification, or to client specification

APPLICATIONS

Syngas analyser systems, heated probe blowback, sample line purging, analyser housing purge and analyser calibration on coal gasification plants feeding methanol, ammonia, hydrogen and synthetic natural gas units.

KEY ADVANTAGES

- **One supply point** – purge, blowback and calibration gases from one panel
- **Safe maintenance** – nitrogen makes lines and analysers inert before they are opened
- **Steady readings** – calibration gas switched in on schedule
- **Supply alarms** – low nitrogen pressure flagged before blowback or purge is lost
- **Matched system** – designed with our syngas probes and sampling cabinets

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.