



# Services

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# Services

## [ Solutions ]

### Units and panels maintenance

Transcontrol performs services for preventive and corrective maintenance on hydraulic units and control panels of both own production as third party.

This work can be performed at the headquarters of Transcontrol, or customer premises, including offshore.



## [ Solutions ]

### Units and panels maintenance

In general, these services include :

- Clean system
- Reform of the structure (Skid)
- Calibration Gauge
- Valve Repair
- Exchange of filtering equipment
- Maintenance of hydraulic pumps and hydropneumatic
- Revision of pipes and connections
- Review of the electrical circuit (reassembly and testing)
- Cleaning and analysis of solid particles in fluid (flushing)





# Services

## [ Solutions ]

### Flushing Services

**At its headquarters,** Transcontrol has a Flushing unit and analysis system by counting the solid particles in the fluid cleanliness to NAS-6. This facility allows us to provide the hydraulic systems properly cleaned.

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**In Macaé,** Transcontrol performs this work also for hydraulic and umbilicals systems, both in client units and offshore.





## [ Solutions ]

### Equipment tests

Besides manufacturing Electronic Signal Acquisition System for hydraulic tests, Transcontrol also provide at its headquarters Signal Acquisition Interface and Pumping Unit to test the application as hydraulic valves and umbilical.



**This service can also be performed at the customer unit  
(offshore included).**



## [ Solutions ]

### Calibration of flow meters

Our laboratory has an electronic workbench tests for metrological verification of meters of gas turbine or rotary transducers for temperature, pressure transducers, signal converter, frequency converter and a microcomputer to control the whole system.

#### Standards

1

Gas Turbine Meter Rombach, TZ300 model G4000, No. 1,700,071, Nominal diameter 300 mm. Operating range 160-600 m<sup>3</sup> / h, Calibration Certificate No. 37 048 of 01.12.2000.





## [ Solutions ]

### Calibration of flow meters

Our laboratory has an electronic workbench tests for metrological verification of meters of gas turbine or rotary transducers for temperature, pressure transducers, signal converter, frequency converter and a microcomputer to control the whole system.

#### Standards

2

Gas Turbine Meter Rombach, Model G650, No. 1,401,652, Nominal Diameter 150 mm Operating range 50-1000 m<sup>3</sup> / h, Calibration Certificate No. 37 047 of 01/12/2000.





## [ Solutions ]

### Calibration of flow meters

Our laboratory has an electronic workbench tests for metrological verification of meters of gas turbine or rotary transducers for temperature, pressure transducers, signal converter, frequency converter and a microcomputer to control the whole system.

#### Standards

3

Gas Turbine Meter Rombach, Model G100 TZ 80, No. 1,202,781, Nominal Diameter 80 mm Operating range 8-160 m<sup>3</sup> / h, Calibration Certificate No. 37 049 of 01.12.2000.







## [ Solutions ]

### Calibration of flow meters

Our laboratory has an electronic workbench tests for metrological verification of meters of gas turbine or rotary transducers for temperature, pressure transducers, signal converter, frequency converter and a microcomputer to control the whole system.

#### Standards

4

All tracked the patterns of PTB-Physikalische Bundesanstalt of Germany.





# Services

## [ Solutions ]

Transcontrol always invests in Research and Development of new products to meet new, customized and constant demands of a sector of the economy that experienced a moment of expansion.

National pioneer and provider of electrical systems submarines since 1999, has maintained partnerships with leading manufacturers of ANMs (subseas trees), providing engineering support, product support and after-sales, always looking to bring the final solution to the needs of Petrobras, the main client.





# Services

## [ Solutions ]

Over the years, Transcontrol has been highlighting in the Oil & Gas Brazilian market because has built its reputation and credibility through relevant projects in partnership with several companies, such as listed below :

- Supply of multiplexed electrical systems in Piggy Back systems to Barracuda / Caratinga fields and recently for Marlin Leste;
- Supply of electrical systems for PLANGÁS, an extremely important project on national scene related to the autonomy of the country for gas production;
- Supply of electrical systems to meet the needs imposed by Petrobras through AFM Global launched in the past three years.
- Supplies electrical systems used in early studies of the Pre Sal - TUPÍ



## [ Solutions ]

Furthermore, the development of new products and technologies, in an already established partnership with Petrobras and CENPES, as most recently :

- SASMI - Signal Acquisition System for data collection in wells without the need for umbilical surface;
- Electric Actuators for subsea systems for PLEMs (Pipeline End Manifolds), used for opening / closing valves transportation. The signal coming from radio land is captured by specially instrumented buoy designed / developed for the conditions of this application. ■

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