COMPAS

COMPAS IDRX-1

COMPAS – A system to collect, analyse and present data for gas refuelling stations.

COMPAS provides you with a complete data analysis, energy-metering and fault-finding tool for your gas refuelling station – all in one package!

COMPAS has been designed for connecting to gas refuelling stations in installations worldwide.

COMPAS comes pre-configured and customised for your station – you will get precisely what you need.

Get "hard to obtain" data that your DCS or control system can't provide today and don't miss opportunities to improve performance, save energy and lower costs for maintenance.

Let COMPAS show you the way to better performance

Features
♦ Connects directly to Mitsubishi control system of Idro Meccanica compressor.
♦ Ready-to-use reports gives instant station status.
♦ Powerful web-server interface that can be accessed on any windows computer.
♦ Works with mobile devices and PDA's.
♦ Measure fuelling times, number of fuellings, alarm statistics and much more.
♦ Complete understanding of energy usage in station using new current inputs.
♦ Use COMPAS data for preventive maintenance on motors, cylinders and valves.
♦ Possible to read COMPAS data over MODBUS to central DCS.

Reporting
COMPAS comes with ready-to-use reports covering station performance, alarm statistics and energy usage.

All reports are available over the web-interface and gives the user an instant status update without labour intensive configuration.

COMPAS automatically calculates needed parameters from available PLC data. Energy is measured from current clamps that is installed with the system.

All calculated data is stored in non-volatile memory, that is protected from power-loss. It is also possible to store data in central data server by reading over MODBUS.

DPP DYNAMO

**DPP DYNAMO
POWER AND PROCESS**

CMS & Maintenance

COMPAS provides you with a condition monitoring system (CMS) for compressor motors, cylinders and gas valves. Measure running hours, compressor strokes, starting and peak motor current and valve operations.

Follow long-term efficiency data to monitor compressor degradation over time.

All parameters are resettable when maintenance have been carried out.

User Interface

The COMPAS user interface is web-based and can be used on any PC or even mobile devices.

No extra licensing is required, number of users are not limited. Let also your contractors benefit from the available data.

Energy Optimization

COMPAS can measure energy use in all connected compressors in all modes of operation. Use the information to understand how to adjust setpoints and improve energy efficiency in the station.

Energy usage can also be used for condition monitoring.

Gas Supply Planning

If your gas station is supplied with mobile gas units, correct planning is important to keep fuelling times short and availability high.

High Speed Recording

High speed logging can be crucial to fault-finding on fast signals. Connect an external signal to COMPAS or record signals from compressor PLC to assist technicians in the field.

Customer Quality

Easy monitoring of customer quality parameters like fuelling time and fuelling pressures for your station.

All data is collected and calculated automatically by COMPAS and is available over the web-interface.

Benchmarking

Install COMPAS on several stations and compare performance between the stations.

Find stations that are under-performing or problematic in your fleet.

Installation

COMPAS is installed in the station it monitors. The installation effort needed is minimal – just connect COMPAS to compressor PLC over Ethernet, install current clamps (clip-on type) and connect to AC power socket.

Different Stations

The system is available for mother-daugther, three bank and mobile unit type of stations.

All IDRO Meccanica TDE and DDE compressor types are supported. Other compressor types are subject to request.

Specifications IDRX-1

Software Modules	1 – Reporting Module 2 – Maintenance Module 3 – Recording Module
User Interface	Web-based interface. HTML5 with Java script. Compatible with all major browsers.
Compressor PLC Connection	Receive signals over UDP directly from Mitsubishi PLC.
Recording Performance	Minimum 20ms sample time, maximum 20min. 1 channel 0...20mA input. 1k sample points.
Power Loss Protection	All aggregated data is protected from power loss for 2 weeks.
Energy Measurement	2 channels 0-50A (AC RMS) current inputs. Current clamps clip-on type.
Language	English. Swedish on request.
General Communication	Ethernet RJ45 connector. TCP/IP, UDP and MODBUS TCP ready.
License	Unlimited users for web-interface. Separate licenses for all software modules (one license per box).
Dimensions	185x185x120mm
Casing Protection	IP21
Weight	Approx. 2kg