

DIGITEL "enviro-sense" - definition for environmental compatible acting

Our DIGITEL automatic aerosol, gas and wet-only Samplers provide an impressive composition of ecology and economy. They are designed to comply with the long-term environment requirements and consequently with a healthy and worthy future life. Our sensitivity „sense“ to questions regarding the environment „enviro“ will let enviro-sense being a reality. Following facts **belong** to the visible results:

- optimised production process by deliberate removal of materials and operating resources which generate environmental damages.
- using recyclable and degradable materials
- use of wellproven electronic with minimum energy requirement
- construction designed for long life time, reliable operation and low maintenance costs.



The aerosol, gas and wet-only sampler of DIGITEL join specialised know-how, experience, quality and ecology – since 1970.

DIGITEL "enviro-drive" - the environmental friendly operating DIGITEL products

The unique DIGITEL air quantity control system provided for sampled air flow rate accurate long-term stability, is the key feature of our HVS and LVS Samplers:

- use of a flow meter
- two adjustable photo cells scan the upper edges of the flow meter
- the photo cell output is converted into an analogue signal, which controls the electronic frequency converter
- the frequency converter controls the high frequency blower, or oil-less compressor, rotary speed providing a constant sampled air flow.
- average temperatures and pressures are calculated in real time by the internal microprocessor allowing the exact determination of the sampled air quantity



The DIGITEL control system using a volumetric flow meter as reference reduces considerably the pressure drop in the system as well as the flow meter calibration need. Furthermore, the pressure drop is reduced too since there is no need neither for using critical orifices or blinds, nor for optimising the plumbing layout. Consequently, the turbine loading is always set at the minimum required value with following advantages:

- low power consumption
- minimum wear
- low noise
- extracted air minimum heating