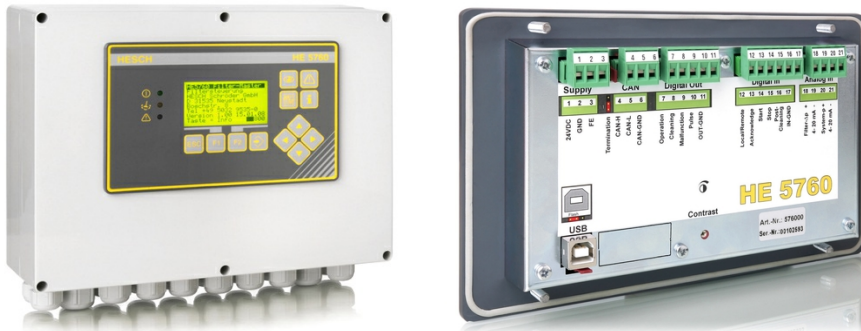


## CANopen-based dust-filtering systems

Hesch (Germany) has developed an industrial dust-filtering systems. The HE 5750 host-controller provides a CANopen NMT master interface to communicate to the sub-layered valve units operating the dust-filters. The entire system can be controlled by means of the Profibus or Modbus interfaces. The embedded filter control software supports the reduction of emission values and energy costs.



THE VALVE CONTROLLERS ARE USED TO pulse solenoid valves in industrial dust extraction technology. They are controlled via an embedded CANopen network by means of the HE 5750 host-controller. The NMT slave units are attributed locally and technically to one filter chamber each. This concept adapts to any desired number of filter chambers and valves. The company also supplies this system readily configured to the customer's plant and confectioned to the last valve plug. The support is facilitated by remote diagnosis/maintenance via modem or Internet connection.

The HE 5760 host controller is dedicated for the de-dusting process in industrial filtration and dust extraction plants. The expansion to a complete de-dusting system is carried out with the HE 5725 valve controllers, which each control 12 valves. Up to 48 valve controllers are connectable via the CANopen network to the host controller. The valves are assigned to filter chambers. The host controller is set with the configuration menu to the existing number of chambers and valves. The configuration can also be performed with the SmartTool PC-software via the USB interface.

The host controller is located in a front built-in casing with foil keypad and graphic display and is intended for installation in switch cabinets. Local operation at the switch cabinet with switching devices and signal lamps that are directly connected is possible. For the communication between host controller and the valve units PDOs are used. They contain the proprietary application parameters. The PDOs implemented in the host controller corresponds to the pre-defined PDOs in the valve units. They use the CAN-ID as specified in the pre-defined connection set according to CiA 301.

