SONO-VIEW

STAND-ALONE MOISTURE DISPLAY AND CONFIGURATION FOR ADVANCED PROCESS CONTROL WITH SONO-PROBES

IMKO MICROMODULTECHNIK GMBH

Technical Data	
Power Supply	+7 .. 24V DC / 0.7W
Operating Temperature	0 .. 50°C
Dimensions	145mm x 75mm x 34mm
Weight	153g
Mounting	Cap Rail (optional)
Interfaces	IMP-Bus (rt / com) USB Mini-B (galvanically isolated)

- SONO-VIEW can communicate with up to 4 SONO-probes.
- Easy and quick installation thanks to „Plug and Measure“ functionality.
- Dynamic adaption of the font size, dependent on the number of probes in the network.
- User-friendly network via IMP-Bus guarantees a secure and galvanically isolated system structure over distances of 1km, without the need of special shielded cables.
- Displaying of accumulated measurements guarantee a correct visual control of moisture values of single batches.
- SONO-VIEW can be used as a desktop device or as a DIN-rail mounting device.
- Online sensor diagnostic function ensures continuous process control.
- Multi-language: German, English, French, Spanish.

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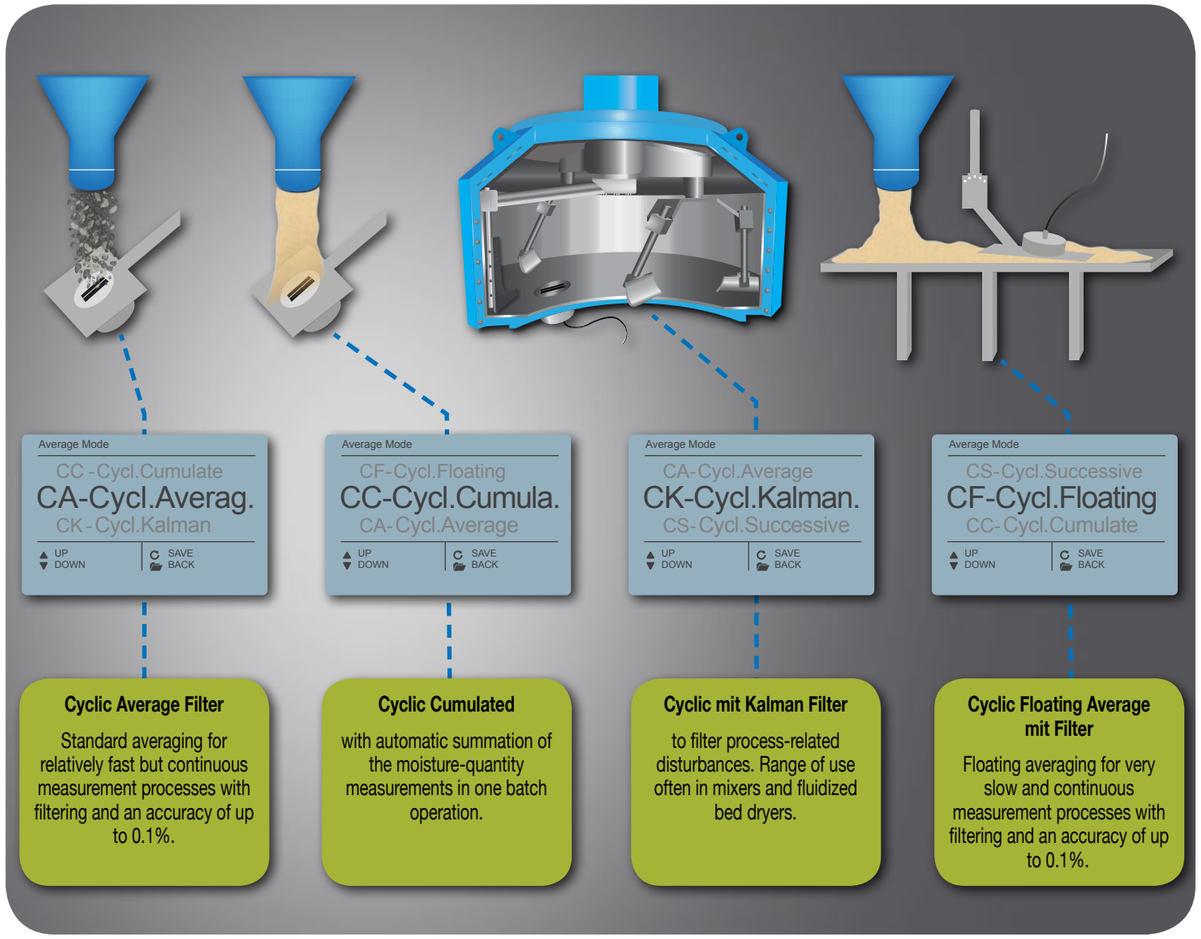
- SONO-VIEW can communicate with up to 4 SONO-probes
- Easy and quick installation thanks to „Plug and Measure“ functionality
- Easy handling to calibrate and configure SONO-probes

Online sensor diagnostic function ensures continuous process control.

SIMPLE USE OF OPERATION MODE FOR EACH APPLICATION

ONLINE CONFIGURATION

With SONO-VIEW it is possible to configurate SONO-probes online to an appropriate operating mode, without the need to connect the SONO-probe to a PC. The operating mode depends on the application like the moisture measurement under a silo flap, inside a dryer or mixer, or on a conveyor belt.



The SONO-probe can be adapted via the SONO-VIEW to the appropriate operating mode like: cyclic measurement, averaging, filtering, cumulating and other powerful operating parameters.

Furthermore it is possible to select a calibration curve inside a SONO-probe with zero-offset setting. All configuration parameters are stored in a non-volatile memory inside the SONO-probe. So the analog output (e.g. 4-20mA) of the SONO-probe which could be connected in parallel to a PLC, responds directly to the configuration parameters.

WHETHER ONE OR FOUR PROBES, THE SYSTEM RESPONDS INTELLIGENTLY

SONO-VIEW ALLOWS A PROBLEM-FREE AND PRACTICE-FRIENDLY SENSOR NETWORKING

An end at last with the problems of serial sensor networking! SONO-VIEW allows the connection of up to 4 SONO-probes with the probe internal robust IMP-Bus. With external power supply on site for the probes, a simple 2-wire cable can be used for the networking. By use of 4-wire cables the probes can be also supplied with power.

Standard RS485-interfaces cause very often problems! They are not galvanically isolated and therefore raises the danger of mass grindings or interferences which can lead to considerably security problems. An RS485 network needs shielded and twisted pair cables, especially for long distances. Depending on the topology of the network, it is necessary to place 100Ohm termination resistors at sensitive locations. In practice this means considerable specialist effort and insurmountable problems.

The robust **IMP-Bus** ensures security. SONO-probes have in parallel to the standard RS485 interface the robust IMP-Bus which is galvanically isolated which means increased safety. The serial data line is isolated from the probe´s power supply and the complete sensor network is therefore independent from single ground potentials and different grid phases. Furthermore the IMP-Bus transmit its data packets not as voltage signals, but rather as current signals which also works at already existing longer lines. A special shielded cable is not necessary and also stub lines are no problem.

DYNAMIC DISPLAY ADAPTION

Whether only one or directly 4 SONO sensors, the dynamic display screen automatically adjusts the height of digits. Even at a higher distance and the display of up to 4 sensor values you always get the best readability.