

The SCM2 is used for any type of HASLER feeders

The SCM2 (Smart Control Module) is a single feeder control module to acquire and process feeder input data, command signals and to pilot the motor drive unit.

SCM2-FIELD



SCM2-Field

Feeder and Control Module - All in one

- ✓ No switch cabinet needed
- ✓ Less cabling on site
- ✓ Easy connection of maintenance terminal through external DB9 port - no need to remove SCM lid. Interconnection with other feeders and operator interface by LON - Bus.
- ✓ Direct serial communication with host system through various optional protocols.

Configuration and maintenance software allowing

- ✓ Read & Write of parameters
- ✓ Configure remote Inputs / Outputs
- ✓ Diagnostics (data acquisition, trend graphic recorder, etc.)
- ✓ Remote maintenance

Communication with the Host System

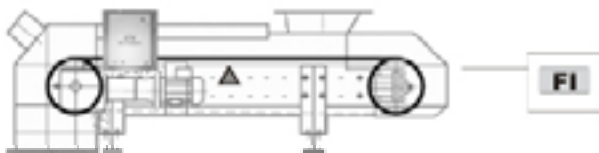
- Modbus TCP (Ethernet)
- Modbus RTU (RS422)
- Allen Bradley Data Highway (RS422)
- Siemens 3964R (RS422)
- Profibus DP (RS485)
- Device-Net
- Modbus Plus



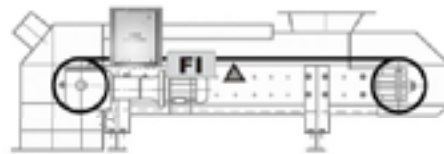
Detailed alarm information via SCM Display (SDU)

Examples of mounting

Feeder with on-board SCM2 - Frequency Inverter in remote location



Feeder with on-board SCM2 and Frequency Inverter



Cell connections

Analog strain-gauge load cell (through converter) in 4 or 6 wires (up to 65 000 points resolution)

Digital load-cell (1 million points) i.e. SFT.

In any case, fast weight acquisition and adjustable digital filter allows to compensate structural vibrations










Analog load-cell



Digital load-cell

Technical data

SOFTWARE APPLICATION	WBF			SFM			LWF
	 GRAVIT	 MAMMUTHUS	 POWDRIT	 FLOWRIT	 FLOW	 GRAN	 RBP
Massflow measurement	•	•	•	•	•	•	•
Massflow PID regulation	•	•	•	•	•		•
Prefeeding PID regulation	•		•	•	•		
Proportioning valve control	•		•	•	•		
Belt control (drift, slippage...)	•	•	•				
Segmented belt taring	•	•	•				
Periodic taring with by-pass function				•			
Feeding gates control	•	•	•	•	•		•
Associated weighing hopper	•	•	•	•	•		
On line calibration	•	•	•	•	•		
Hopper feeding regulation	•	•	•	•	•		
Weighing under inlet hopper	•		•				
Continuous level measure in settling chamber for prefeeding regulation			•				
Density measurement for prefeeding correction							
Segmented memorization of volumetric throughput (feed factor)							•
Advanced fluidization of storage silo							•

Power requirements

Supply voltage	115VAC +/-10% or 230 VAC +/-10%
Supply frequency	47 – 63 Hz
Max. Power Consumption	50 W
Switch-On Current	Max. 2A for 2AC for 1 or 2 power cycles

Environmental ratings

Area Classification	General Purpose
Operating Ambient Temp.	-20°C to 60°C
Storage Ambient Temp	-25°C to 70°C
Operating Altitude	<3000m
Max. Humidity	95% at 25°C without condensation (DIN 4004to 0 Class F)
Degree of Protection	IP65

Dimensions of SCM2-F

Height	320 mm
Width	316 mm
Depth	123 mm

Certification



Dedicated Inputs / Outputs

Digital Inputs (standard) (i.e., 24VDC...)	8
Digital Outputs	4
Digital Inputs for speed and index acquisition	3
Analog Input	1
Analog Output	1

Remote Inputs / Outputs

Digital Inputs	5 – 24 – 48 VDC / 24 – 120 – 230 VAC
Digital Outputs	5 – 24 VDC / 230 VAC / Relay SPST-DPDT
Analog Inputs / Outputs	0 - 20 mA / 4 - 20 mA / 0 – 10 V

Dimensions of the SCM Display (SDU)

Height	144 mm
Width	144 mm
Depth	60 mm

Electrical Standards

General electrical emissions :	EN50081-2
General Electrical Immunity :	EN50082-2
Electrical safety :	EN61010-1

Alternative

The SCM2 is also available in a feeder integrated version : PANEL