

A Feeder (Example Weigh Belt Feeder)
 B Weighing Acquisition
 C Motor Drive Unit
 D SCM2
 E SCM Display
 Communication to Host System

Each HASLER weigh feeder consists of the components A, B, C, D and E.

This technical data sheet describes component D

The SCM2 is used for any type of HASLER feeders

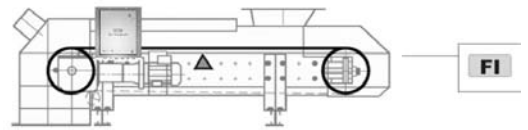
The **SCM2 (Smart Control Module)** is a single feeder control module to acquire and process feeder input data, command signals and to pilot the motor drive unit.

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

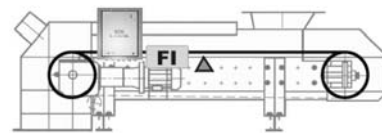
Example of mounting :

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



Configuration and maintenance software allowing :

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



Feeder with on-board SCM2 and Frequency Inverter



- ⊙ Detailed alarm information via SCM Display

SCM Display (SDU) |



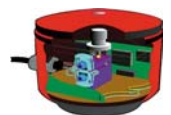
Cell connections :

Analogue strain-gauge load cell (through converter) in 4 or 6 wires (up to 65 000 points resolution) or
 Digital load-cell (1 million points) i.e. SFT.



Analog load-cell

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











Digital load-cell

Communication with the Host Sytem

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



Technical data

SOFTWARE APPLICATION	WBF				SFM			LWF
Associated Machines	 GRAVIT	 MAMMUTHUS	 POWDRIIT	 FUELDRIT	 FLOWRIT	 FLOW	 GRAN	 RBP / TVR
Massflow measurement	●	●	●	●	●	●	●	●
Massflow PID regulation	●	●	●	●	●	●		●
Prefeeding PID regulation	●		●	●	●	●		
Proportioning valve control	●		●	●	●	●	8	
Belt control (drift, slippage...)	●	●	●	●			4	
Segmented belt taring	●	●	●	●			3	
Periodic taring with by-pass function					●		1	
Feeding gates control	●	●	●	●	●	●	1	●
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

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

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

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 SCM2-F

Height	320 mm
Width	316 mm
Depth	123 mm

Dimensions of the SCM Display (SDU)

Height	144 mm
Width	144 mm
Depth	60 mm

Alternative :

The SCM2 is also available in a feeder integrated version : **PANEL**
Ref. to Technical Sheet SCM2-P.260.001.E-b.

Electrical Standards

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

Certification
CE

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