

- A Feeder (Example Weigh Belt Feeder)
- B Weight Acquisition
- C Motor Drive Unit
- D SCM2
- E SCMDisplay

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

Communication to Host System

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.

- **Precabling module** for a fast installation
- Potential use of **standard components for the modules I/O**.
- Connection between additional feeders and the operator interface via **network Lon Bus**.

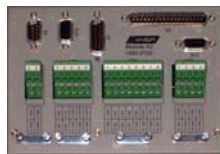
Easy Maintenance

- ⊙ Entirely removable steel frame
- ⊙ AUXBOARD + CPU steel framed and strippable
- ⊙ Immediate visualisation of the I/O and other module functions
- ⊙ DB type connectors

Configuration and maintenance software allowing :

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

Precabling Module



SCM2-Panel



... and diagnostics

- ⊙ Detailed alarm information via SCM Display (SDU)

SCM Display (SDU)



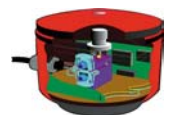
Cell connections :

Analog 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.

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



Analog load cells











Digital load cell

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



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	●		●	●	●	●		
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

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	IP30

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-P

Height	315 mm
Width	134 mm
Depth	201,5 mm
Depth with connect.	260 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 : **FIELD**
Ref. to Technical Sheet SCM2-F.260.001.E-b.

Certification CE
Electrical Standards

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

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