

A Feeder (for example Weigh Belt Feeder)
 B Weighing system
 C Motor Control
 D SCM2
 E SCM Display
 Communication to Host system

- Each HASLER weigh feeder is composed of subsets A, B, C, D and E.
 - This technical data sheet describes the component D.

SCM2 is adaptable to every HASLER Weigh Belt Feeder

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



- **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**.

Configuration and maintenance software allowing

- Complete reading & writing of parameters
- Remote inputs / outputs configuration
- Diagnosis for maintenance (creation of data files, trends plotting, etc.)
- Remote maintenance

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

Precabling module for a fast installation.

Potential use of **standard components for I/O modules**.

Connection between additional feeders and the operator interface via **network Lon Bus**.

Detailed alarm information via **SCM Display (SDU)**

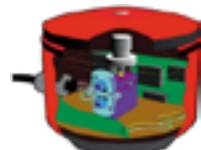
Digital sensors

Analog strain-gauge load cell (through converter) in 4 or 6 wires (more than 65 000 points resolution).



Analog load-cell

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



Digital load-cell








Adjustable digital filter and fast weight acquisition.

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
	 GRAVIT	 MAMMUTHUS	 POWDTRIT	 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	IP30

Dimensions of SCM2-P

Height	315,0 mm
Width	134,0 mm
Depth	201,5 mm
Depth with connect.	260,0 mm

Alternative

SCM2 is also available in a feeder integrated version : FIELD
Ref. to Technical Sheet SCM2-F.260.001.E.

Certification



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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 SCM Display

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

All our addresses are on:

www.hasler-int.com