

F6217

8-fold safety-related analog input module

The F 6217 acquires eight current or voltage signals with safety isolation and 12-bit resolution. The HIMA sheet identifies its diagnostic tests, cable variants and safety-related handling requirements.

8 INPUTS

Eight safety-related analog input channels.

CURRENT

0/4-20 mA range; measured through the specified shunt.

VOLTAGE

0-5 V or 0-10 V field interface, per plug arrangement.

RESOLUTION

12-bit conversion; 0-4095 for the stated 0-5.5 V span.

INTERFACE	HIMA RECORD
Safety basis	Original sheet states tested according to AK6/SIL3.
Processing	Redundant safety-related processor system; tests execute on the module.
Self-tests	A/D linearity, channel crosstalk, input filters, I/O bus, microcontrollers and memory.

EXACT-MODEL BOUNDARY

Do not mix 5 V, 10 V and current cable-plug variants; confirm shunts, unused-input termination and fault-bit logic.

MANUFACTURER BASIS

HIMA Paul Hildebrandt GmbH + Co KG, F 6217 (9912) Overview Data Sheets, pp. 1-4

Factual operating values

PARAMETER	HIMA DATA
Voltage measurement	0-5.5 V; maximum input 7.5 V
Current measurement	0-22 mA via shunt; maximum 30 mA
Input resistance	100 kilohm
Resolution	12 bit
Measured-value update	50 ms
Safety time	Less than 450 ms
Input filter	Approximately 10 ms
Basic error	0.1% at 25 C
Operating error	0.3% from 0 to +60 C

Current shunt

250 ohm, 0.05%, 0.25 W HIMA shunt for current input.

Unused voltage

Unused 0-5 V inputs require jumpers per the HIMA diagram.

Unused current

Terminated with the shunt in the cable connector.

INTERPRETATION

These are manufacturer-stated module values, not a substitute for the installed safety design, cable-plug variant or cabinet acceptance record.

DOCUMENT CONTROL

HIMA Paul Hildebrandt GmbH + Co KG, F 6217 (9912) Overview Data Sheets, pp. 1-4