

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.

Documented application contexts

Current-signal acquisition

Receive documented 0/4-20 mA process measurements.

Voltage-signal acquisition

Receive approved 0-5/10 V signals with the correct connector.

Redundant measurement

Apply HIMA's documented redundant transmitter wiring where engineered.

Safety fault response

Feed related channel fault bits into approved ELOP II logic.

Engineering snapshot

TOPIC	VERIFIED INTERPRETATION
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.
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.
Shielding	Screened field cable is required to achieve the specified interference immunity.
Signal processing	Each analog input has a related channel fault bit to be handled in ELOP II.

CONTROLLED USE

Do not mix 5 V, 10 V and current cable-plug variants; confirm shunts, unused-input termination and fault-bit logic. Source: HIMA Paul Hildebrandt GmbH + Co KG, F 6217 (9912) Overview Data Sheets, pp. 1-4