

■ Converter SSI 9005 / 9006 for encoder with SSI interface

Characteristics

- SSI 9005, 2 alarm relays and analog output optional RS 485 interface
- SSI 9006, 4 alarm relays optional RS 485 interface
- Up to 1 MHz clock frequency
- Input Synchron Serial Interface SSI
- Output 0(2) - 10V or 0(4) - 20mA (SSI 9005)
- Programmable slave mode
- Housing for DIN rail mounting EN 50 022
- Plug-In screw terminals
- Removing of MSBs and LSBs possible

Parameters of encoder

- Binary or gray code
- Singelturn/Multiturn
- Direction of rotation
- Master/Slave-Mode
 Master: clock for reading data of encoder is generated internal by the SSI 9005-9006
 Slave: clock for reading data of encoder is generated by an external instrument

SSI signal inputs

- Data input, receiver RS 422/485
- Clock output, driver RS 422/485
- Clock input, receiver RS 422/485

Software functions

- Encoder adjustments
- Adjustable for encoder with 9-32 bits
- Removing of MSBs and/or LSBs possible
- Scaling factor
- Zero point adjustment
- Direction of rotation
- Offset value
- Incremental measurement
- Display test and display hold (Latch)
- MIN/MAX value detection
- Auto-Reset for MIN/MAX value
- Set point editing during normal measurement

Push button functions

The three push buttons at the front could be programmed for performing the following functions:

- No function
- Displaying encoder data, MIN or MAX value
- Resetting the MIN/MAX value
- Zero adjustment
- Reset zero adjustment
- Manual alarm reset
- Display test and display hold



Digital input channels

The both digital input channels are low active and can be programmed to following functions:

- No function
- Displaying encoder data, MIN or MAX value
- Zero adjustment
- Reset zero adjustment
- Manual alarm reset
- Display test and display hold

Alarm outputs

Two alarm outputs (SSI 9005) or four alarm outputs (SSI 9006) with free allocation allows the monitoring of production operation.

Programmable parameters:

- Alarm point and hysteresis
- Relay function (high or low alarm)
- Alarm response time (fall off and put on time)
- Data source: encoder, MIN or MAX value

Analog output (SSI 9005)

The analog output is provided with a current output and a voltage output. Both outputs are isolated from the further electronic.

- Scaleable (zero/offset and final value)
- Output 0(2) - 10 V or 0(4) - 20 mA

Data source: direct encoder, MIN or MAX value

Option Serial Interface

The unit can be provided with an serial interface for data communication.

- RS 485

Electrical Data

SSI signal input	singleturn or multitem
Resolution	9 .. 32 bit
Code	binary or gray
Data input	receiver RS 422/485
Clock input	receiver RS 422/485
Clock output	driver RS 422/485
Master mode	
Clock frequency	internal 1 MHz, 500 kHz, 200 kHz or 100 kHz
Conversion rate	approx. 28 values per sec
Slave mode	
Clock frequency	extern, max. 500 kHz
Conversion rate	approx. 28 values per sec
Digital inputs	2, programmable function
Logic	NPN, max. 30 V
Alarm outputs	2 (4) Relays program. as n.o. contact or n.c.contact
Signaling	2 LEDs at the front
Switch voltage	250 V AC / 250 V DC
Switch current	5 A AC / 5 A DC
Switch power	750 VA / 100 W
Analog output	resolution 16 bit
Accuracy	± 0,2% of final value
Voltage	0(2) - 10 V, max. 10 mA
Current	0(4) - 20 mA; max. 500 Ω
Isolation voltage	3 kV / 1 min
Power supply voltage DC	18 .. 36 V DC
Isolation voltage	500 V / 1 min
Power consumption	DC 200 mA

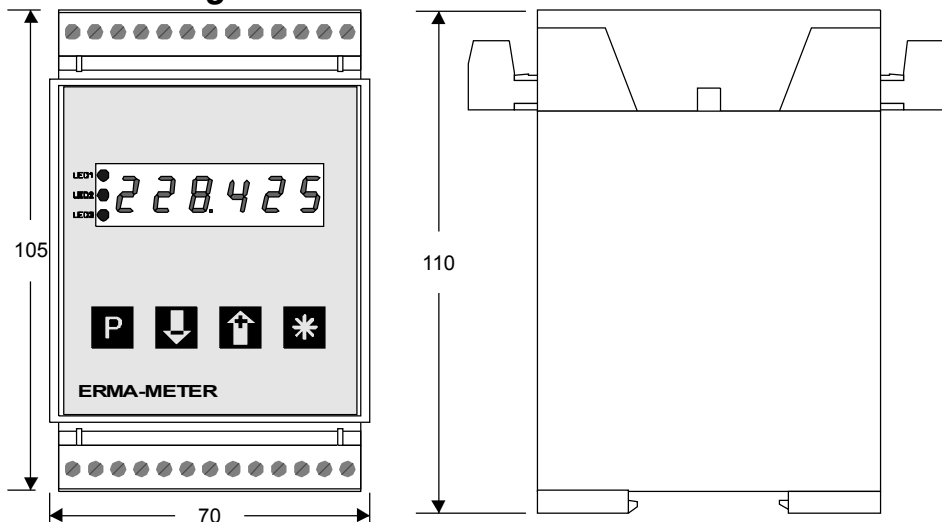
Mechanical Data

Display	6 decades, 8 mm, red Decimal point programmable preliminary zero suppression - sign at negative values
Operation, keyboard design	front membrane with push buttons
Case	Rail mounting EN 50 022
Dimensions (B x H x T)	67,5 x 75 x 105 mm
Weight	ca. 300 g
Connection	Plug-In screw terminal

Environmental conditions

Operating temperature	0 .. 50 °C
Storage temperature	-20 .. 70 °C
Humidity	< 80 %, not-condensing
Protection	protective class II
Field of application	class 2, overvoltage protection II CE in conform with 89/336/EWG NSR 73/23/EWG

Dimensions and mounting



Ordering Information

SSI 9005 -	0			0
				Reserve
				Front design
			0	No logo
				Power supply
	0			5 V DC, ±10%, isolated
	1			12 V DC, ±10, isolated
	2			18.. 36 V DC, isolated
				Option RS 485 Interface
	0			Without Serial Interface RS 485
	1			With Serial Interface RS 485

SSI 9006 -	0			0
				Reserve
				Front design
			0	No logo
				Power supply
	0			5 V DC, ±10%, isolated
	1			12 V DC, ±10, isolated
	2			18.. 36 V DC, isolated
				Option RS 485 Interface
	0			Without Serial Interface RS 485
	1			With Serial Interface RS 485