



# INF8-EnDat

Absolute Code Counter for *EnDat* Interface

- ✓ EnDat (\*) Interface
- ✓ Free Scaling and Zeroing
- ✓ Resolution selection
- ✓ Four Set Point Relays
- ✓ Analogue Output
- ✓ Serial Data Ports
- ✓ DIN 48 x 96mm
- ✓ Mains or DC Supply



**Model INF8-EnDat** is a 6 digit counter for a direct connection to EnDat serial interface of Absolute Coded Resolvers. The counter is front programmable with the keyboard and uses a high speed microcontroller. Standard features are multiplication and division of the display readings, preset and reset, four set points, two analog outputs and two serial data ports.

After the instrument is switched-on the information from the resolver or optical lineal are read into the internal microcontroller. This will be automatically programmed for the correct number of bits. The position defined by the resolver appears at the display. The readings at the display can be scaled in required units and resolution. The parameters SCALE, dSCALE, OFFSEt and OrdEr are keyboard programmable. The menu permits selection of **EnDat 2.1** or **EnDat 2.2**.

If accidentally the scanning head of the optical lineal gets out of the lineal body and the position gets lost, a warning status will be generated at the display and the measurement stops. The data transmission and the measurement will continue by using a correcting signal via the keyboard.

The display can be set to zero at any position of the encoder or optical lineal. The Tara remains memorized also when the power is removed from the instrument.

Four Set Points SP1 ... SP4 can be adjusted over the entire display range from 0 ...  $\pm 999999$ . The set points activate open collector output transistors or optional mechanical relays.

5V-350mA excitation for supplying of EnDat sensors is isolated from analog outputs and serial data ports. The minus potential is connected to the input GND. Optional excitation is adjustable with internal potentiometer from 5V/40mA up to 24V/100mA.

(\*) *EnDat* is the name of the databus of the company Heidenhain

# INF8-EnDat Controller

## Inputs

Data +, Data -, Clock +, Clock at the terminals P4.

## Digital Display

Six digits, 7 segment red display 14,7mm . Display capacity 0 ... ±999999 with decimal point.

## Scaling

The measurements at the display can be scaled with a multiplicative (SCALE) and a dividing (dSCALE) constants.

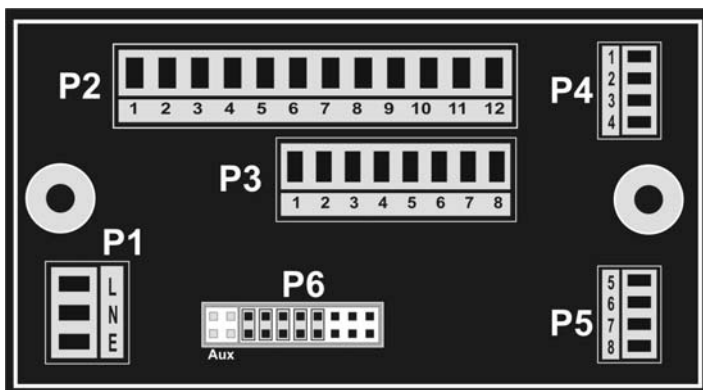
## Four Set Points

SP1 ... SP4 with 4 output transistors 60V/100mA or with 4 Relays 5A- 230VAC. Each output can be set for active open or active closed.

## Two Analogue Outputs

-10V ... +10V and 0/4...20mA are option. They are 250V RMS isolated are are generated simultaneously. The two Limits -10V and 0/4mA or +10V and 20mA can be assigned to any two display readings. The resolution is 12 or 16 bits (option).

## TERMINALS – rear of the instrument



## Communicati Ports

RS232 and RS485 (4 wire) are generated simultaneously. They are selectable via the keyboard One telegram contains 8 bit, No Parity, 1 Start and 1 Stop. Baud Rate wählbar 600 to 19200 bd. RS485 has addresses selectable from 1 to 31. The address 0 activates RS232. The Communication Port is isolated by 250V RMS.

## Excitation

EnDat Supply of 5V-350mA is isoliert. Option: 5-24V/40mA adjustable.

## Supply

Mains: 115/230V ±10%, 50-60Hz, 6VA. Option: 9 - 36 V DC, 4 W.

## Cabinet

Cabinet for panel mount DIN 48 x 96 mm, depth behind panel 150 mm. Panel cut-out 45 x 93 mm.

## Terminals

Plugable screw terminals and flat cable connector.

TO ORDER	INF8- EnDat -	X	-	X	-	X	-	X
Mains 115VAC -----	0							
Mains 230VAC -----	1							
DC 9-36VDC -----	4							
No Set Points -----	0							
4 Output Transistors -----	1							
2 Relays -----	2							
4 Relays -----	3							
No Analogue Output -----	0							
Analogue Output 12 Bit -----	1							
Analogue output 16 Bit -----	2							
No data Port -----	0							
RS data Ports -----	1							