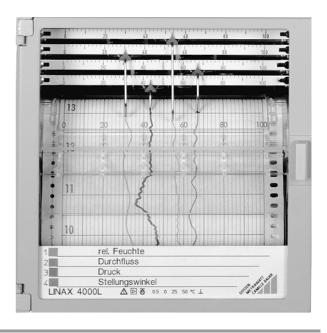


3-348-852-03 6/8.18

- 1 to 4 line channels
- Format 144 mm x 144 mm, mounting depth 250 mm
- Combined recording table for roll chart (32 m) or fanfold chart (16 m)
- Measuring channels electrically isolated
- Rugged design



## Applications

The configurable continuous-line recorder LINAX 4000L serves to record slowly changing measured quantities. DC current and DC voltage can be connected directly.

The recorder is meant for installation in panels.

## Description

The LINAX 4000L is a microprocessor-controlled, continuous-line recorder. It is supplied with 1 to 4 line channels.

The recorder is connected to transducers and is served to measure process-related signals.

The recorder is supplied with signal inputs DC 0  $\dots$  20 mA / 0  $\dots$  10 V or DC 4  $\dots$  20 mA.

High electromagnetic compatibility (EMC) as well as high common mode and series mode rejection of interference voltages ensure non-problem use of the LINAX 4000L even in rough environments.

# Applied rules and standards

#### A) International standards

IEC 484	Potentiometric recorders	
IEC 61010-1	Safety requirements for electrical equipment for mea- surement, control and laboratory use Part 1: General requirements	
IEC 664	Measuring category, degree of pollution	
IEC 68-2-6	Mechanical stress (vibrations)	
IEC 68-2-27	Mechanical stress (shock)	
EN 60529	Test instruments and test procedures Degrees of protection provided by enclosures (IP code	
EN 61326-1	Electrical equipment for measurement, control and labo ratory use – EMC requirements – Part 1: General requirements	
IEC 721-3-3	Climatic environmental conditions	
IEC 742	Isolating transformers and safety isolating transformers – requirements	

#### B) German standards

DIN 43802	Scales
DIN 16234	Recording paper
DIN 43831	Cases

### Symbols and their meaning

Symbol	Meaning
X1n	Lower range limit nom. range
X2n	Upper range limit nom. range
X2n – X1n	Range span nom. range

## **Technical data**

#### Analog inputs and measuring ranges

DC current	$\begin{array}{l} 0 \ \ 20 \ \text{mA; Ri} = 40 \ \Omega \\ 4 \ \ 20 \ \text{mA; Ri} = 50 \ \Omega \end{array}$
DC voltage	010 mA; Ri = 500 k $\Omega$

Deadband	0.25 % of range span
Setting time	2 s, 5 s, 20 s, 60 s

#### **Reference conditions**

Ambient temperature	25 °C ± 1 K
Relative humidity	45 75 %
Auxiliary voltage	Hn $\pm$ 2 %, nominal frequency $\pm$ 2 %
Mounting position	Front upright ± 2°
Warm-up time	30 min

Class 0.5 referred to range span

#### Accuracy

D 1 11 11 150 101	
Deviation according to IEC 484	

#### Variations

Temperature		0.2 %/10 K, additionally	
Humidity		Note influence on recording paper according to DIN 16234	
Auxiliary voltage Hn		0.1 % at 24 V AC/DC ± 20 % 0.1 % at 24 V AC +10 % / -15 % 0.1 % at 115 V AC +10 % / -15 % 0.1 % at 230 V AC +10 % / -15 %	
AC interference voltages (see perm. interference voltages)		0.5 % of range span	
Magnetic field of external origin 0.5 mT		0.5 % of range span	
Mechanical stress according to DIN IEC 68-2-6/27 Transport Impact: 30 g/18 ms Vibration: 2 g/		During and after the effect $\pm$ 0.5 % of range span	
5 150 Hz in function	Vibration: 0.5 g/± 0.04 mm/ 5150 Hz/3 × 2 cicli		

## Display

Scale

One graduation per measuring system Scale face 5 mm wide Character size 2 mm

## Recording

Arrangement of measuring systems and color correlation



2nd channel 1st channel × 4nd channel

### Line recording

Fiber recording pen with inkwell of approximately 1.4 ml, line length approximately 1300 m,

distance between the tips of the fiber recording pens 2 mm.

### Recording

Chart speed	Speed selectable on control panel: 1/5/10/20/60/120/300/600 mm/h
Recording chart	32 m roll chart or 16 m fanfold chart
Visible chart length	60 mm
Recording width	100 mm (chart width 120 mm, DIN 16230)
Chart intake (with roll chart)	Via automatic paper take-up device (daily tear- off or take-up of the 32 m possible)

## Auxiliary voltage

24 V AC/DC ± 20 % Power consumption with max. fitting approx. 15 W/20 VA

24/110/230 V AC +10 %/-15 % Frequency range 47.5 ... 63 Hz Power consumption with max. fitting approx. 20 W/25 VA

# **Climatic suitability**

Ambient temperature	0 <u>25</u> 50 °C
Transport and storage temperature	−40 +70 °C
Relative humidity	$\leq$ 75 % annual average; max. RH $\leq$ 85 % in function
Climatic class	3K3 acc. to IEC 721-3-3

## **Electrical safety**

Test according to DIN EN 61010-1 (classification VDE 0411) and/or IEC 61010-1

Protection class I

Overvoltage category III at the power input II at inputs

Degree of pollution 2 in the device and at the connection terminals according to VDE 0110, parts 1 and 2

Test voltage

3.75 kV measuring channels to energy supply 2.20 kV protective conductor to energy supply

# Functional extra low voltage with protective separation (PELV)

Between power input – measuring channels, control leads, interface cables acc. to VDE 0100 part 410 and VDE 0106 part 101.

## Electromagnetic compatibility

The protection goals of the EMC directive 2014/30/EU as to radio interference suppression and as to immunity to interference according to EN 61326-1 are complied with.

## Scope of delivery

- 1 copy of operating instructions
- 2 fasteners
- 1 chart roll or fanfold pack, inserted in the unit
- 1 fiber recording pen per measuring channel

Additionally, depending upon the order: Centering angle bracket for installation in mechanical grids; reading ruler(s)

## Connection, case and installation

#### Electrical connections

Protection type IP 20 Screw and plug terminals for signal inputs Max. wire cross section  $2 \times 1 \text{ mm}^2$ Screw terminals for line connection Max. wire cross section 4 mm<sup>2</sup>

#### Case

Molded material for installation in panels or mechanical grids (see dimensional drawing for dimensions)

Protection type of case according to EN 60529 Front panel IP 54 Rear panel IP 20

#### Color of case

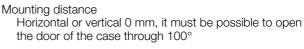
Silica-gray according to RAL 7032

#### Door of case

Molded material or door with metal frame RAL 7032 and glas pane, anti-glare

#### Fastening of case

With  $\hat{2}$  fasteners (optionally for installation in panel or mechanical grid), centering angle brackets are required for installation in mechanical grids



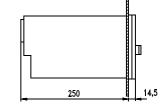
Weight 3 kg, approx.

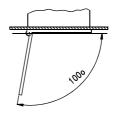
Position of use

### Dimensional drawing (dimensions in mm)

Lateral [–30° ... 0 ... +30°], inclined to the rear 20°, to the front 20°

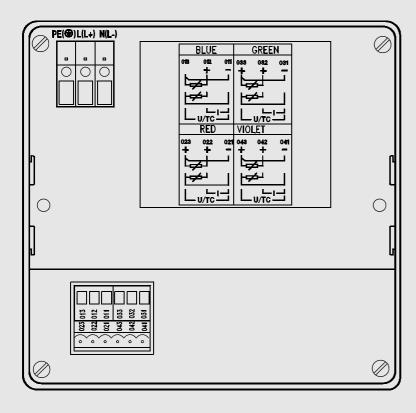


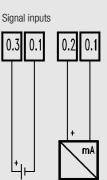






### Wirung diagrams





# Order code

Continuous-line recorder LINAX 4000L with identical DC measuring ranges for all channels     A4150       Front dimensions 144 × 144mm     1 line channel     AA001       2 line channels     AA003       3 line channels     AA003       4 line channels     AA004       0 measuring ranges     Lower range limit X1     AA004       DC 0 20 mA /DC 0 10 V     X1 = 0 mA     X2 = 20 mA     BA001       (convertible to DC 4 20 mA)     X1 = 0 mA     X2 = 20 mA     BA001       DC 0 20 mA /DC 0 10 V     X1 = 0 mA     X2 = 20 mA     BA001       (convertible to DC 0 20 mA /DC 0 10 V)     X1 = 0 mA     X2 = 20 mA     BA001       Scale 1st channel:     same as measuring range     K2 = 20 mA     BA001       without graduation     BB000     BB001     Scale 1st channel:     Same as measuring range     K2       a per request     Same as scale     BB000     BB002     Scale 1st channel:     BB000       same as scale     Same as scale     Scale 2st channel, only for 2-channel or multi-channel versions:     Same as scale 1st channel, only for 2-channel or multi-channel versions:     Same as scale 1st channel, only for 3-channel or multi-channel versions:     Scale 2st channel, only for 3-channel or multi-channel ver		
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same as scale 1st channel, but features DB DBxxx		
···· ··· ·····························		
same as 1st channel, but features DC DCxxx		
Scale 4th channel, only for 4-channel version:		
same as scale 1st channel, but features EB EBxxx		
Reading ruler 4th channel, only for 4-channel version:		
same as 1st channel 1, but features EC ECxxx		
Recording type for roll (32 m) KA001		
for fanfold pack (16 m) KA002		
Auxiliary voltage:       24 V 85 V AC/DC       LA001		
95 V 240 V AC/DC LA002		

(Cont'd next page)

# Order code (cont.)

Descrizione		Article number
		A4150
Front door	Plastic	MA001
	Metal	MA002
Label	Blank with GOSSEN METRAWATT logo	NA000
	Blank without logo	NA001
	With inscription as per request, 1 line/meas. point with max. 31 char	acters NA900
Test report	None	PA000
	With factory test certificate M according to DIN 55350-18-4.2.2 and reading test certificate B according to EN 10204-3.1B	PA001
Operating instructions	German	RA000
	None	RA001
	English	RA002
	French	RA003
	Italian	RA004

#### Ordering examples

Clear text			Ordering code	)
Continuous-line recorder LINAX 4000L with ide	A4150			
	3 continuous-line recorders		AA003	
Meas. range DC 0 20 mA			BA001	
Scale 1st channel:	0 100		BB003	
Scale 2nd channel:	0 5 MW		CB900	
Scale 3rd channel:	0 300 °C		DB900	
Recording type	for fanfold pack (16 m)		KA002	
Auxiliary voltage	AC: 230 V		LA002	
Front door	Plastic		MA001	

Ordering code: A4150 / AA003 / BA001 / BB003 / CB900 0 ... 5 MW / DB900 0 ... 300 °C / KA002 / LA002 / MA001

## Accessories

Article numbers ending with a letter are complete and need not to be commented. Article numbers ending with a **numeral** must be commented with the **following features**.

Description		Article number							
Scale with heights 5.0 mm	Scale, graduation as per request	A4130							
Reading ruler, graduation as per request			A4120						
Label for measuring poir	t								
	for LINAX 4000			A4400					
	with GOSSEN METRAWATT logo			AA000					
	without GOSSEN METRAWATT logo			AA001					
	Channel green without inscription			BA001					
	Channel green with inscription			BA900					
	Channel red without inscription			BB001					
	Channel red with inscription			BB900					
	Channel blue without inscription			BC001					
	Channel blue with inscription			BC900					
	Channel violet without inscription			BD001					
	Channel violet with inscription			BD900					
Screw terminal with 5 connectors					A404A				
Screw terminal with 3 cc	innectors					A404B			
4 each centering angle (	4 each centering angle (with installation in grid)						A416A		

## Consumable items (cont'd)

Article numbers ending with a letter are complete and need not to be commented. Article numbers ending with a **numeral** must be commented with the **following features**.

Description			Article number								
Recording chart, chart v	vidth 120 mm, recording	width 100 mm									
Chart roll 32 m, graduatio	n 0 100, minimum orde	ring quantity 25 rolls									
	Time graduation/ speed	None	A401A								
		10 mm/h	A401B								
		20 mm/h	A401C								
		60 mm/h	A401D								
		120 mm/h	A401E								
		as per request	A4070								
			CA90								

(cont'd)

## Consumable items (cont'd)

Article numbers ending with a letter are complete and need not to be commented. Article numbers ending with a **numeral** must be commented with the **following features**.

Description			Article number						
Chart roll 32 m, wit	h calibrated graduation, minimum o	rdering quantity 25 rolls	A4071						
	Calibrated graduation	as per request	AA900						
	Inscription	as per request	BA900						
	Time graduation/ speed	as per request	CA900						
Fanfold pack 16 m,	graduation 0 100, minimum ord	ering quantity 25 packs							
	Time graduation/ speed	None		A401L					
		20 mm/h		A401N					
		as per request		A4075					
				CA90					
Fanfold pack 16 m,	with calibrated graduation, minimu	m ordering quantity 25 packs			A4074				
	Calibrated graduation	as per request			AA900				
	Inscription	as per request			BA900				
	Time graduation/ speed	as per request			CA900				
Recording styli									
Stylus green						A406B			
Stylus red						A406A			
Stylus blue						A406C			
Stylus violet						A406D			

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