

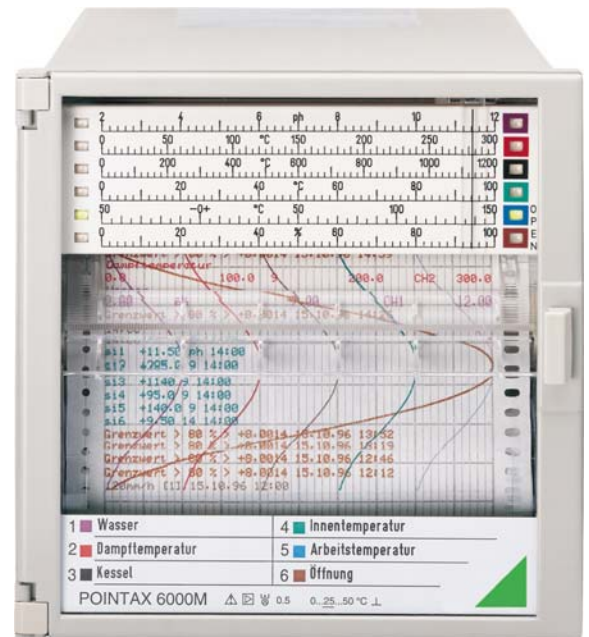
POINTAX 6000M

Point recorder

3-348-798-03
4/8.18

Application

The configurable point recorder POINTAX 6000M serves the recording of changing measured quantities. DC current, DC voltage, thermocouples as well as resistance thermometers (Pt 100) can be connected directly. Additionally, alphanumeric texts, date, time and events can be printed out. The recorder is meant for panel mounting.



Essential features

- 6 measuring channels
- Last point visible from the front
- With text printout
- Measuring channels electrically isolated and earth-free
- Format 144 mm x 144 mm, mounting depth 250 mm
- Combined recording table for roll chart (32 m) or fanfold chart (16 m)
- RS 485 interface
- 2 limits per measuring channel
- Balancing
- 4 event markers
- Can alternatively be used as event recorder with 10 event markers

Description

The POINTAX 6000M is a configurable point recorder, in scale version with 1 to 6 scale divisions.

The recorder is connected to transducers and/or directly to sensors like thermocouples or resistance thermometers.

The recorder is matched to the measuring task via the internal keyboard or via the serial interface with PC and parameterizing program PARATOOL P6000M.

Supplementary functions like text printout, date, time, balancing and event marker increase the information content of the print-out process quantity. Alarm signalling and remote control make the POINTAX 6000M a device to be used in a wide range of applications.

The standby function makes triggered recording operation possible.

POINTAX 6000M

Point recorder

Applied rules and standards

A) International standards

| | | |
|-------------|-----------------|---|
| IEC 484 | DIN 43782 | Potentiometric recorders |
| IEC 61010-1 | DIN EN 61010-1 | Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements |
| IEC 664 | VDE 0110 | Insulation group |
| IEC 68-2-6 | DIN IEC 68-2-6 | Mechanical stress (vibrations) |
| IEC 68-2-27 | DIN IEC 68-2-27 | Mechanical stress (shock) |
| EN 60529 | VDE 0470-1 | Test instruments and test procedures Degrees of protection provided by enclosures (IP code) |
| EN 61326-1 | VDE 0843-20-1 | Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements |
| IEC 721-3-3 | DIN IEC 721-3-3 | Climatic environmental conditions |
| IEC 742 | DIN EN 60742 | Classification VDE 0551 safety transformers |

B) German standards

| | |
|-----------|-----------------|
| DIN 43802 | Scales |
| DIN 16234 | Recording chart |
| DIN 43831 | Cases |

Symbols and their meaning

| Symbol | Meaning |
|---------------------|---|
| X1n / X1 | Lower range limit nominal range / lower range limit |
| X2n / X2 | Upper range limit nominal range / upper range limit |
| X2n – X1n / X2 – X1 | Range span nominal range / range span |

Technical specifications

Analog inputs, nominal ranges

| | |
|--------------------------|--|
| DC current | 0...20 mA; Ri = 50 Ω 4...20 mA; Ri = 50 Ω ± 2.5 mA; Ri = 50 Ω ± 5 mA; Ri = 50 Ω ± 20 mA; Ri = 50 Ω |
| DC voltage | 0 ... 25 mV; Ri ≥ 2 MΩ ± 25 mV; Ri ≥ 2 MΩ 0 ... 100 mV; Ri ≥ 2 MΩ ± 100 mV; Ri ≥ 2 MΩ 0 ... 500 mV; Ri ≥ 2 MΩ ± 500 mV; Ri ≥ 2 MΩ 0 ... 2.5 V; Ri ≥ 200 kΩ ± 2.5 V; Ri ≥ 200 kΩ 0 ... 5.0 V; Ri ≥ 200 kΩ ± 5.0 V; Ri ≥ 200 kΩ ± 10 V; Ri ≥ 200 kΩ ± 20 V; Ri ≥ 200 kΩ |
| Thermocouples, Ri ≥ 2 MΩ | Typ T –270 ... +400 °C Typ U –200 ... +600 °C Typ L –200 ... +900 °C Typ E –270 ... +1000 °C Typ J –210 ... +1200 °C Typ K –270 ... +1400 °C Typ S –50 ... +1769 °C |

| | |
|-------------------------------|--|
| Thermocouples, Ri ≥ 2 MΩ | Typ R –50... +1769 °C Typ B 0 ... +1820 °C Typ N –20 ... +1300 °C Cold junction compensation internally or externally parameterizable |
| Resistance thermometer Pt 100 | –50 ... +150 °C; –50 ... +500 °C; –200 ... +850 °C |
| With 2-wire connection | Line resistance 40 Ω max. |
| With 3-wire connection | Line resistance 80 Ω max. |

Analog inputs, measuring ranges

| | |
|--|---|
| Lower range limit | parameterizable from X1n ... X1n + 0.8(X2n – X1n) and |
| Range span | parameterizable from 0.2(X2n – X1n) ... (X2n – X1n). |
| Deadband | 0.25 % of the range span |
| Setting time | 1 s |
| Load cycle time | for all channels 3 ... 360 s selectable |
| Attenuation of the measured value | with low-pass filter of 1st order; |
| Time constant | 0 ... 60 s per meas. channel, parameterizable. |
| Root-extract. funct. | can be parameterized with DC current and DC voltage measuring ranges. |
| User-specific linearization | can be parameterized with DC current and DC voltage measuring ranges. |

Reference conditions

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

Accuracy

| | |
|--|--|
| Deviation in acc. with DIN IEC 484 | Class 0.5 referred to nominal range |
| With displacement of lower range limit and/or upper range limit additionally | ± (0.1 % × $\frac{X2n - X1n}{X2 - X1} - 0.1$) |
| With internal cold junction compensation | ± 4 K additionally |

Variations

| | |
|--|--|
| Temperature | 0.2 % / 10 K, additionally 0.1 % / 10 K with conn. to thermocouple |
| Humidity | Note influence on recording chart in acc. with DIN 16234. |
| Auxiliary voltage Hn | 0.1 % at 24 V DC/AC ± 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 interf. volt. (see permiss. interf. volt.) | 0.5 % of the range span |
| Magnetic field of ext. origin 0.5 mT | 0.5 % of the range span |
| Mechanical stress in acc. with DIN IEC 68-2-6/27 | During and after the effect ± 0.5 % of the range span |
| Transport in function | Impact: 30 g/18 ms Vibration: 2 g/5 ... 150 Hz Vibration: 0.5 g/± 0.04 mm/ 5...150 Hz/3 × 2 cycles |

POINTAX 6000M

Point recorder

Real-time clock

Function maintained in the case of power failure: 5 days (capac.).

Options (code H01)

Binary inputs

| | |
|-------------------|------------------------------|
| Number | 6 (DI 1 ... DI 6) |
| Auxiliary voltage | 20 ... <u>24</u> ... 30 V DC |
| Input current | 6 mA |
| H signal | 20 ... 30 V |
| L signal | 0 ... 1.3 V |

Relay outputs

6 potential-free relay contacts (roots connected to each other)
 Contact load: 30 V / 100 mA
 14 additional relays available via external I/O converter.

External speed change

It is possible to switch between speed 1 and 2 and to switch the speed off, each via a freely selectable binary input.

Standby function

The standby function is activated via a freely selectable binary input. Internal deactivation via limit monitoring is possible.

Event markers

4 markers are possible
 Recording at approx. 2 %, 5 %, 95 % and 98 % of the recording width.

Externally controlled recording

Recording of externally controlled channels.

10 event markers

usable (without measured value recording) via external I/O converter (also see trend recording).

Balancing

Balancing can be selected for each measuring channel. The external control of the balancing interval is via a freely selectable binary input.

End-of-chart signalling

With speeds of ≥ 120 mm/h, 2 hours before the chart runs out. With speeds of < 120 mm/h, at least 8 hours before the chart runs out. Signalling is via a relay contact which can be freely assigned. When changing the recording chart, enter the length of the chart roll into the recorder.

Limit monitoring

2 limits per channel for monitoring the absolute value.
 6 internal relays can be freely assigned to the limits.
 Hysteresis 2 % of the range span (X2 – X1)

Display

Scale version

Scale
 1 to 6 divisions
 Type size at number of divisions:

| | | | | | | |
|----------------|---|---|---|---|---|---|
| Divisions | 1 | 2 | 3 | 4 | 5 | 6 |
| Type size (mm) | 4 | 4 | 4 | 2 | 2 | 2 |

Channel display

by vertical LED column on the right side of the scale

Assignment scales to channel

by vertical LED column on the left side of the scale

Display and control panel (behind the recording table)

Display (only for parameterization) 5-digit 7-segment display
 Digit size 4 × 7 mm
 Operation with 3 keys

Recording

Colors

violet, red, black, green, blue, brown

Color sequence in acc. with DIN 43838

| | |
|-----------|--------|
| Channel 1 | violet |
| Channel 2 | red |
| Channel 3 | black |
| Channel 4 | green |
| Channel 5 | blue |
| Channel 6 | brown |

or freely assignable to the channels

Last point visible from the front

Color reservoir $\geq 1 \times 10^6$ points per color

Trend recording

The measured value recording is carried out in the form of a point line with equidistant point space.

Operating modes

Cyclic operation – Processing all channels

Recording:
 all channels are updated during the cycle time
 Measured value display:
 a measuring channel switches continuously or channel-wise from cycle to cycle.

Externally controlled

Recording:
 the externally controlled channels are recorded, recording start can be delayed from 0 ... 30 s
 Measured value display:
 switches channel-wise from cycle to cycle.
 Option required

Cyclic operation – Processing one channel

Recording and measured value display:
 the displayed channel is updated during the cycle time.
 DO 1 ... DO 6 signals the measuring channel connected through.
 Option required

Event recorder for 10 events

Recording:
 Start, duration and end of the event are recorded in the form of an open rectangle.
 I/O converter required

POINTAX 6000M

Point recorder

Text printout

only possible with chart speed ≤ 240 mm/h

Type size approx. 1.5×2 mm

Extent of the text printout:

1. Ten text lines, each text line optionally with
up to 32 characters
up to 30 characters and time printout
up to 24 characters and time/date printout.
Initiated cyclically, in parameterizable time intervals or depending on events by internal limits or externally controlled (binary inputs).
2. Printout of chart speed, date and time.
Initiated by switching on the recorder and by changing the chart speed.
3. Printout of current measured values
Initiated cyclically, in parameterizable time intervals or depending on events by internal/external control.
4. Printout of triple lines assigned to measuring points.
First line: Scaling line with channel marking and printout of the unit of measurement.
Second line: Measuring-point-specific text with up to 54 characters.
Third line: Limit markings.
5. Printout of the balancing table consisting of:
Comment line
Start and end time of the balancing interval
Min. / max. value during the balancing interval
Average and cumulative value of the balancing interval
6. Lists of all active parameters
Initiated manually in the parameterizing mode.

Chart roll speed

| | |
|-------------------------------|--|
| Speed parameterizable in mm/h | 0/2.5/5/10/20/30/40/60/120/240/300/ 600/1200 to be switched over and off externally (Option) |
| Chart roll | 32 m roll chart or 16 m fanfold chart |
| Visible diagram length | 60 mm |
| Print span | 100 mm (chart span 120 mm, DIN 16230) |
| Chart intake (for roll chart) | via automatic chart take-up device (daily tear-off or take-up of the 32 m possible) |

Auxiliary voltage

UC power supply
24 V DC ± 20 %
24 V AC +10 %, -15 %
Power consumption at max. fitting approx. 15 W / 21 VA

AC power supply
24/115/230 V AC +10 %, -15 %
Frequency range 47.5 ... 63 Hz
Power consumption at max. fitting approx. 15 W / 21 VA

RS 485 interface

- a) For parameterization
- b) Coupling to higher order systems for bidirectional data transfer.
The data protocol follows the PROFIBUS standard.

Climatic suitability

| | |
|--|--|
| Ambient temperature | 0 ... <u>25</u> ... 50 °C |
| Transport and storage temperature | -40 ... +70 °C |
| Relative humidity (device in function) | ≤ 75 % annual average, max. ≤ 85 % prevent dewing |
| Climatic class | 3K3 in acc. with IEC 721-3-3 |

Electrical safety

Test in acc. with DIN EN 61010-1 (Classification VDE 0411)
and/or IEC 61010-1
Protection class I
Measuring category
III at line input
II at inputs
Degree of pollution
2 in the device and at the connecting terminals
Test voltage
3.75 kV measuring channels to power supply
2.20 kV protective conductor to power supply

Functional extra low voltage with protective isolation (PELV)

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

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.

POINTAX 6000M

Point recorder

Factory settings

Scale with a division of 0 ... 100

is supplied when no scale division is specified in the scale device order.

Parameter presettings

If no individual parameterization is specified in the recorder order, the POINTAX 6000M is supplied with the following parameter pre-
settings:

All measuring channels with the measuring range 0 ... 20 mA

Speed 1: 20 mm/h

Speed 2: 120 mm/h

The limits are set to end values (0 and 20 mA).

Attenuation of the measured value, zoom, print and limit functions are deactivated.

No password is defined.

This parameter presetting can be initialized again independently from the currently set parameterization.

Scope of delivery

1 copy of operating instructions

2 fasteners

1 roll chart or fanfold chart, inserted in the recorder

1 color head

Additionally, depending on the order:
reading ruler(s)

Connection, case and installation

Electrical connections

Degree of protection IP 20

Screw-plug terminals for measuring inputs, control inputs and limit value relay outputs.

Max. wire cross section $2 \times 1 \text{ mm}^2$

Screw terminals for line connection

Max. wire cross section $1 \times 4 \text{ mm}^2$ or $2 \times 1.5 \text{ mm}^2$

RS 485 interface via 9-pole SUB D plug

Case

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

Degree of protection of the case in acc. with EN 60529

Front (including door) IP 54

Back IP 20

Color of the case

Silica-gray in acc. with RAL 7032

Door of the case

Metal frame (RAL 7032) with mineral glass or molded material

Fastening of the case

with 2 fasteners (optionally for installation in panel or mechanical grid) for a maximum grid width of 40 mm, centering angle brackets are required for installation in mechanical grids

(Ordering number A416A)

Position of use

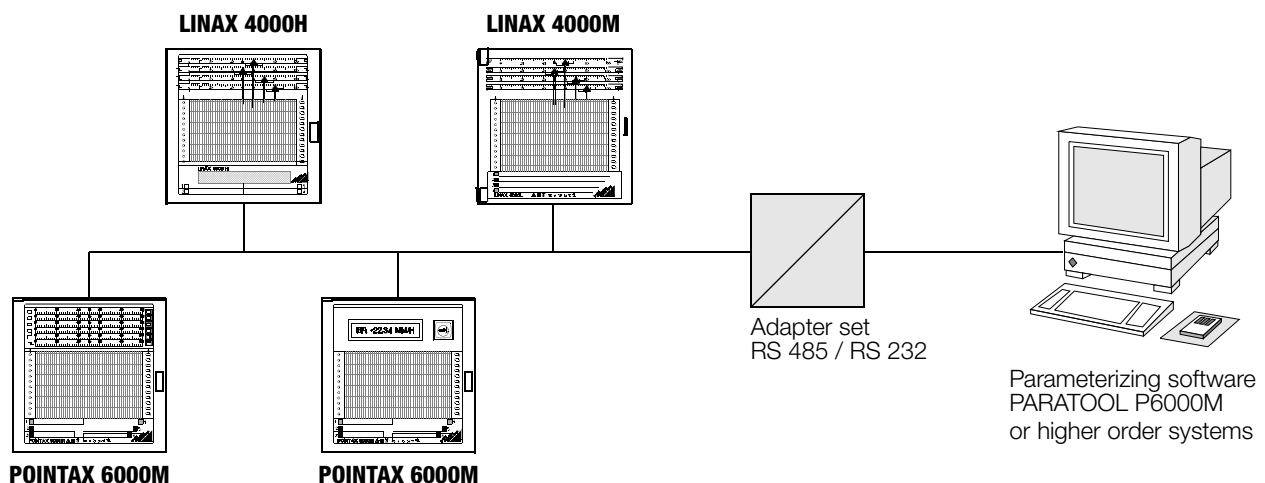
Inclined to the side $[-30^\circ \dots 0 \dots +30^\circ]$, inclined to the rear 20° ,
inclined to the front 20°

Mounting distance

horizontal or vertical 0 mm, it must be possible to open the door of the case by 100°

Weight approx. 3.2 kg

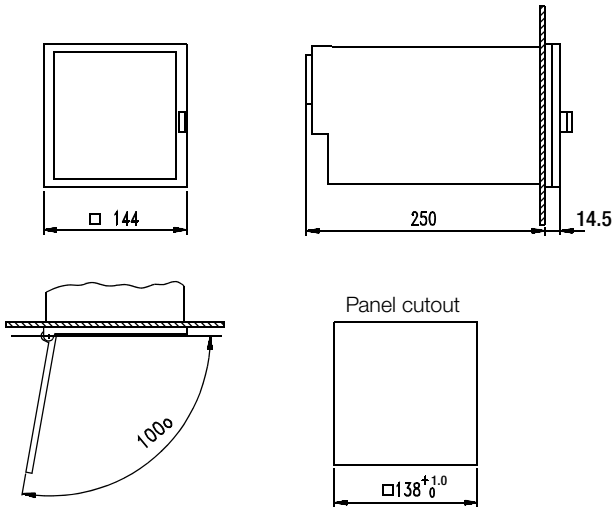
Example of interlinking



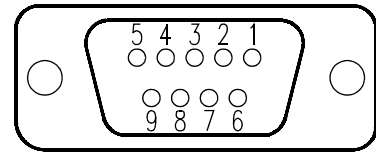
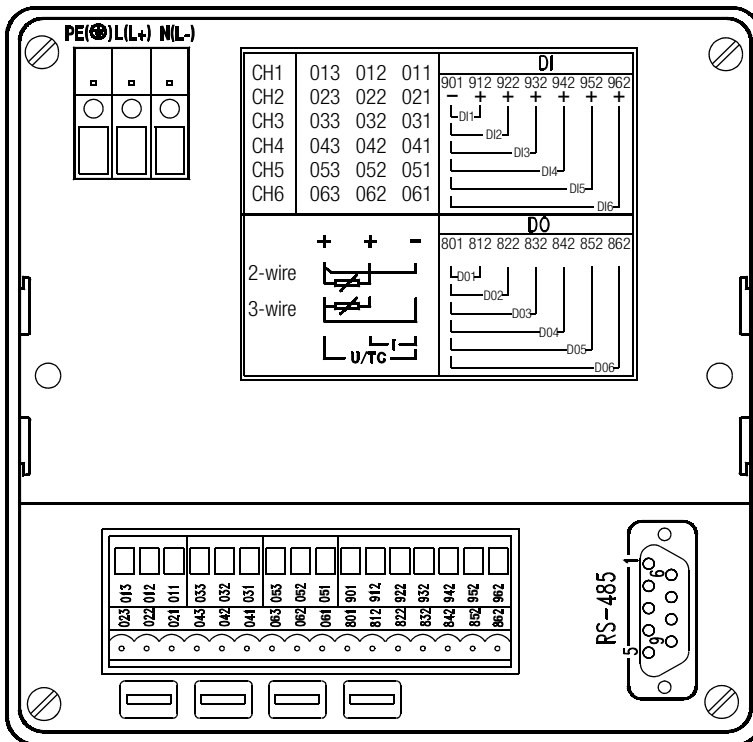
POINTAX 6000M

Point recorder

Dimensional drawing (Dimensions in mm)



Wiring diagrams



RS 485 interface

- Pin 1: Screen
- Pin 3: RXD (+)
- Pin 5: Gnd (reference potential)
- Pin 6: +5 V
- Pin 8: RXD (-)
- Pin 9: I/O converter (-)

For bus operation:

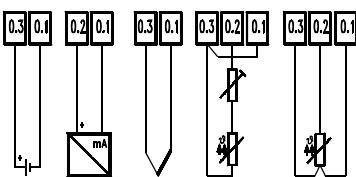
The voltage +5 V at Pin 6 is required when the POINTAX 6000M is used as bus terminal.

The screen is put on a plug-in knife at the recorder case.

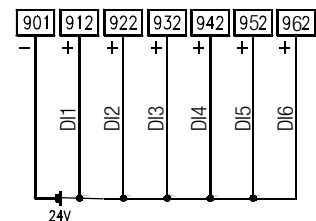
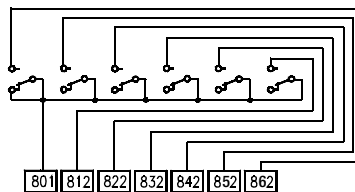
Binary inputs

Binary input = depending on the parameterization for speed change, standby, event marker initiation, text printout

Measuring inputs



Limit contacts



POINTAX 6000M

Point recorder

Order code

| Description | | | | Article number | |
|---|------|--------|------------------------------------|--|------------------------------------|
| Point recorder POINTAX 6000M with universal signal inputs for process signals, thermocouples, resistance thermometers, display with analog scales, RS 485 interface, front dimensions 144 x 144 | | | | A4260 | |
| Parameterization | | | | | |
| Parameterization in accordance with presetting see page 5 Range is the same for all channels | | | | Lower range limit X1 X1 = 0 mA | Upper range limit X2 X2 = 20 mA |
| | | | | XH00 | |
| Parameterization in accordance with order code within the listed limits (measuring ranges, texts, time, scaling line, options ...) | | | | XH92 | |
| Measuring range channel 1 | | | | XA9nn only in connection with XH92 | |
| Nominal range | X1n | X2n | Lower range limit X1 | Upper range limit X2 | |
| DC current | 0 | 20 mA | $0.0 \leq X1 \leq 16.0 \text{ mA}$ | $X1 + 4.0 \leq X2 \leq 20 \text{ mA}$ | XA901 |
| | 4 | 20 mA | $4.0 \leq X1 \leq 16.8 \text{ mA}$ | $X1 + 3.2 \leq X2 \leq 20 \text{ mA}$ | XA902 |
| | -2.5 | 2.5 mA | $-2.5 \leq X1 \leq 1.5 \text{ mA}$ | $X1 + 1.0 \leq X2 \leq 2.5 \text{ mA}$ | XA903 |
| | -5 | 5 mA | $-5.0 \leq X1 \leq 3.0 \text{ mA}$ | $X1 + 2.0 \leq X2 \leq 5.0 \text{ mA}$ | XA904 |
| | -20 | 20 mA | $-20.0 \leq X1 \leq 12 \text{ mA}$ | $X1 + 8.0 \leq X2 \leq 20 \text{ mA}$ | XA905 |
| DC voltage | 0 | 25 mV | $0 \leq X1 \leq 20 \text{ mV}$ | $X1 + 5 \leq X2 \leq 25 \text{ mV}$ | XA906 |
| | -25 | 25 mV | $-25 \leq X1 \leq 15 \text{ mV}$ | $X1 + 10 \leq X2 \leq 25 \text{ mV}$ | XA907 |
| | 0 | 100 mV | $0 \leq X1 \leq 80 \text{ mV}$ | $X1 + 20 \leq X2 \leq 100 \text{ mV}$ | XA908 |
| | -100 | 100 mV | $-100 \leq X1 \leq 60 \text{ mV}$ | $X1 + 40 \leq X2 \leq 100 \text{ mV}$ | XA909 |
| | 0 | 500 mV | $0 \leq X1 \leq 400 \text{ mV}$ | $X1 + 100 \leq X2 \leq 500 \text{ mV}$ | XA910 |
| | -500 | 500 mV | $-500 \leq X1 \leq 300 \text{ mV}$ | $X1 + 200 \leq X2 \leq 500 \text{ mV}$ | XA911 |
| | 0 | 2.5 V | $0 \leq X1 \leq 2 \text{ V}$ | $X1 + 0.5 \leq X2 \leq 2.5 \text{ V}$ | XA912 |
| | -2.5 | 2.5 V | $-2.5 \leq X1 \leq 1.5 \text{ V}$ | $X1 + 1.0 \leq X2 \leq 2.5 \text{ V}$ | XA913 |
| | 0 | 5 V | $0 \leq X1 \leq 4 \text{ V}$ | $X1 + 1.0 \leq X2 \leq 5 \text{ V}$ | XA914 |
| | -5 | 5 V | $-5 \leq X1 \leq 3 \text{ V}$ | $X1 + 2.0 \leq X2 \leq 5 \text{ V}$ | XA915 |
| | -10 | 10 V | $-10 \leq X1 \leq 6 \text{ V}$ | $X1 + 4.0 \leq X2 \leq 10 \text{ V}$ | XA916 |
| | -20 | 20 V | $-20 \leq X1 \leq 12 \text{ V}$ | $X1 + 8.0 \leq X2 \leq 20 \text{ V}$ | XA917 |

Continued on the next page

POINTAX 6000M

Point recorder

Order code (continued)

| Description | | | | Article number | |
|---|---|--|------------------------------|----------------|--|
| | | | | A4260 | |
| Thermocouple type B | 0 1820 °C | 0 ≤ X1 ≤ 1456 °C | X1 + 364 ≤ X2 ≤ 1820 °C | XA918 | |
| Thermocouple type E | -270 1000 °C | -270 ≤ X1 ≤ 746 °C | X1 + 254 ≤ X2 ≤ 1000 °C | XA919 | |
| Thermocouple type J | -210 1200 °C | -210 ≤ X1 ≤ 918 °C | X1 + 282 ≤ X2 ≤ 1200 °C | XA920 | |
| Thermocouple type K | -270 1400 °C | -270 ≤ X1 ≤ 1066 °C | X1 + 334 ≤ X2 ≤ 1400 °C | XA921 | |
| Thermocouple type L | -200 900 °C | -200 ≤ X1 ≤ 680 °C | X1 + 220 ≤ X2 ≤ 900 °C | XA922 | |
| Thermocouple type N | -20 1300 °C | -20 ≤ X1 ≤ 1036 °C | X1 + 264 ≤ X2 ≤ 1300 °C | XA923 | |
| Thermocouple type R | -50 1769 °C | -50 ≤ X1 ≤ 1405 °C | X1 + 364 ≤ X2 ≤ 1769 °C | XA924 | |
| Thermocouple type S | -50 1769 °C | -50 ≤ X1 ≤ 1405 °C | X1 + 364 ≤ X2 ≤ 1769 °C | XA925 | |
| Thermocouple type T | -270 400 °C | -270 ≤ X1 ≤ 266 °C | X1 + 134 ≤ X2 ≤ 400 °C | XA926 | |
| Thermocouple type U | -200 600 °C | -200 ≤ X1 ≤ 440 °C | X1 + 160 ≤ X2 ≤ 600 °C | XA927 | |
| Resist. thermometer 2-wire | -50 150 °C | -50 ≤ X1 ≤ 110 °C | X1 + 40 ≤ X2 ≤ 150 °C | XA928 | |
| Resist. thermometer 2-wire | -50 500 °C | -50 ≤ X1 ≤ 390 °C | X1 + 110 ≤ X2 ≤ 500 °C | XA929 | |
| Resist. thermometer 2-wire | -200 850 °C | -200 ≤ X1 ≤ 640 °C | X1 + 210 ≤ X2 ≤ 850 °C | XA930 | |
| Resist. thermometer 3-wire | -50 150 °C | -50 ≤ X1 ≤ 110 °C | X1 + 40 ≤ X2 ≤ 150 °C | XA931 | |
| Resist. thermometer 3-wire | -50 500 °C | -50 ≤ X1 ≤ 390 °C | X1 + 110 ≤ X2 ≤ 500 °C | XA932 | |
| Resist. thermometer 3-wire | -200 850 °C | -200 ≤ X1 ≤ 640 °C | X1 + 210 ≤ X2 ≤ 850 °C | XA933 | |
| Scale channel 1 | | without division | | FA001 | |
| | | same as measur. channel | | FA002 | |
| | | 0 ... 100 | | FA003 | |
| | | as requested | | FA090 | |
| Reading ruler channel 1 | | without reading ruler | | GA001 | |
| | | same as scale | | GA002 | |
| | | 0 ... 100 | | GA003 | |
| | | as requested | | GA090 | |
| Meas. range channel 2 | same as meas. range channel 1, but markings XB... | | only in connection with XH92 | XB9nn | |
| Scale channel 2 | same as scale channel 1, but markings FB... | | | FBnnn | |
| Read. ruler channel 2 | same as channel 1, but markings GB... | | | GBnnn | |
| Meas. range channel 3 | same as meas. range channel 1, but markings XC... | | only in connection with XH92 | XC9nn | |
| Scale channel 3 | same as scale channel 1, but markings FC... | | | FCnnn | |
| Read. ruler channel 3 | same as channel 1, but markings GC... | | | GCnnn | |
| Meas. range channel 4 | same as meas. range channel 1, but markings XD... | | only in connection with XH92 | XD9nn | |
| Scale channel 4 | same as scale channel 1, but markings FD... | | | FDnnn | |
| Read. ruler channel 4 | same as channel 1, but markings GD... | | | GDnnn | |
| Meas. range channel 5 | same as meas. range channel 1, but markings XE... | | only in connection with XH92 | XE9nn | |
| Scale channel 5 | same as scale channel 1, but markings FE... | | | FEnnn | |
| Read. ruler channel 5 | same as channel 1, but markings GE... | | | GEnnn | |
| Meas. range channel 6 | same as meas. range channel 1, but markings XF... | | only in connection with XH92 | XF9nn | |
| Scale channel 6 | same as scale channel 1, but markings FF... | | | FFnnn | |
| Read. ruler channel 6 | same as channel 1, but markings GF... | | | GFnnn | |
| Further parameters deviating from the parameterization | | none | only in connection with XH92 | XP000 | |
| | | as requested, within the listed limits | | XP901 | |

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POINTAX 6000M

Point recorder

Order code (continued)

| Description | | Article number | |
|---|---|----------------|--|
| | | A4260 | |
| Options (binary inputs / binary outputs, limits, see page 3) | No | H000 | |
| | Yes | H001 | |
| Recording | For roll chart (32 m) | P001 | |
| | For fanfold chart (16 m) | P002 | |
| Auxiliary voltage | 24 V ... 85 V AC/DC | J001 | |
| | 95 V ... 240 V AC/DC | J002 | |
| Front door | Plastic | K001 | |
| | Metal | K002 | |
| Label for measuring points | Blank with GOSSEN METRAWATT logo | L000 | |
| | Blank without logo | L001 | |
| | With inscription as requested, 1 line / measuring point with up to 31 characters | L090 | |
| Test report | None | M000 | |
| | With factory test certificate M according to DIN 55350-18-4.2.2 and reading test certificate B according to EN 10204-3.1B | M001 | |
| Operating instructions | German | N000 | |
| | None | N001 | |
| | English | N002 | |
| | French | N003 | |
| | Italian | N004 | |

Ordering example

| | | | |
|---|----------------------------|--------------|-----------------|
| Point recorder POINTAX 6000M with universal signal inputs for process signals, thermocouples, resistance thermometers, display with analog scales , RS 485 interface, front dimensions 144 x 1444 | | A4260 | |
| Measuring range channel 1 | Resist. thermometer 2-wire | 0 100 °C | XA928 |
| Measuring range channel 2 | Resist. thermometer 2-wire | 0 300 °C | XB929 |
| Measuring range channel 3 | DC current | 0 20 mA | XC901 |
| Measuring range channel 4 | DC current | 0 20 mA | XD901 |
| Measuring range channel 5 | DC current | 0 20 mA | XE901 |
| Measuring range channel 6 | DC current | 0 20 mA | XF901 |
| Scale channel 1 | same as measuring range | | FA002 |
| Scale channel 2 | same as measuring range | | FB002 |
| Scale channel 3 | 0 ... 50 l/s | | FC090 |
| Scale channel 4 | 0 ... 100 % | | FD090 |
| Scale channel 5 | 0 ... 100 | | FE003 |
| Scale channel 6 | 0 ... 100 | | FF003 |
| Reading ruler channel 1 ... 6 | Without reading ruler | | GA001 ... GF001 |
| Options (binary inputs / binary outputs, limits) | | | H001 |
| Recording | With roll chart (32 m) | | P001 |
| Auxiliary voltage | 230 V AC | | J003 |
| Front door | Metal | | K002 |

A4260 /XH92 /

XA928 0 ... 100 °C / XB929 0 ... 300 °C / XC901 / XD901 / XE901 / XF901 /
 FA002 / FB002 / FC090 0 ... 50 l/s / FD090 0 ... 100 % FE003 / FF003 /
 GA001 / GB001 / GC001 / GD001 / GE001 / GF001 / H001 / P001 / J003 / K002

POINTAX 6000M

Point recorder

Accessories (continued)

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

| Description | | Article number | | | |
|---|---|----------------|--|--|--|
| Screw terminal with 3 connectors | | A404B | | | |
| Bus termination resistors Package with 2 × 390 ohms and 1 × 150 ohms | | A409A | | | |
| Z-diode combination | Protection against interruption of unipolar and bipolar signals during plug-in module removal, for unipolar / bipolar inputs (4 each) | A421A | | | |

Consumable items

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

| Description | | Article number | | | |
|--|-----------------------|----------------|-------|--|--|
| Recording chart, chart width 120 mm, recording width 100 mm | | | | | |
| Roll chart 32 m, division 0 ... 100, min. ordering quantity 25 rolls | | | | | |
| | Time division / speed | None | A401A | | |
| | | 10 mm/h | A401B | | |
| | | 20 mm/h | A401C | | |
| | | 60 mm/h | A401D | | |
| | | 120 mm/h | A401E | | |
| | | as requested | A4070 | | |
| | | | CA90 | | |
| Roll chart 32 m, with calibrated division, min. ordering quantity 25 rolls | | A4071 | | | |
| | Calibrated division | as requested | AA900 | | |
| | Inscription | as requested | BA900 | | |
| | Time division / speed | as requested | CA900 | | |
| Fanfold chart 16 m, division 0 ... 100, min. ordering quantity 25 packages | | | | | |
| | Time division / speed | None | A401L | | |
| | | 20 mm/h | A401N | | |
| | | as requested | A4075 | | |
| | | | CA90 | | |

Continued on the next page

POINTAX 6000M

Point recorder

Consumable items (continued)

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

| Description | | | Article number | | | | | | | |
|--|-----------------------|--------------|----------------|--|--|--|--|--|--------------|--|
| Fanfold chart 16 m, with calibrated divis., min. ordering quantity 25 packages | | | | | | | | | A4074 | |
| | Calibrated division | as requested | | | | | | | AA900 | |
| | Inscription | as requested | | | | | | | BA900 | |
| | Time division / speed | as requested | | | | | | | CA900 | |
| Print head | | | | | | | | | A405B | |

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