ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

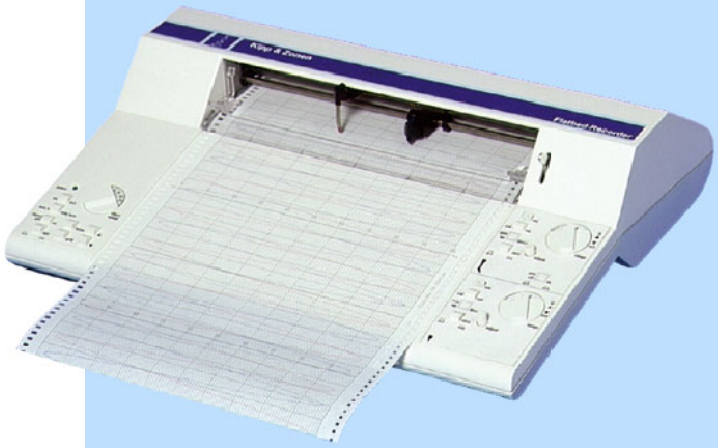
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Kipp & Zonen BD 12E* at our website: *Click HERE*

Kipp & Zonen

BD 11 / BD 12

COMPACT FLATBED RECORDER



This line of instruments is based on a proven robust and reliable design that is recognised world-wide as being the standard in recording.

All models have differential inputs with constant impedance over all input ranges which allow for accurate measurements from almost any source.

The high sensitivity (up to 400 V full scale) and gilded input contacts allow even very low voltages to be measured accurately.

The high-speed servo system records signals up to 5 Hz and the 6th order 14 Hz low pass filter eliminates the 50/60 Hz noise completely.

The newly designed penholder has improved grip and simplifies the exchange of pens.

FEATURES

New electronic design one or two channel recorder with state of the art technology

Differential inputs

User selectable left and right zero-position

RS-232 serial data output for both channels 1)

Pen Offset Compensation with on/off switch 1)

Home function and grid function

Electrical pen lift

Remote control

1) **optional**

FOUR DIFFERENT MODELS:

BD 11	Single channel flatbed recorder
BD 12	Dual channel flatbed recorder
BD 11E	Single channel flatbed recorder with electrical penlift and remote control
BD 12E	Dual channel flatbed recorder with electrical penlift and remote control

In addition to the standard voltage inputs, the following input modules are also available for monitoring:

VOLTAGE INPUT ACCESSORIES	ORDER CODE
Attenuator 100x, 500V max.	0328-322
Attenuator 10x, 500V max.	0328-324
Current shunt 0-20 mA	0328-320
Current shunt 4-20 mA	0328-321
Current shunt 0-16 A	3300-001
Temperature module type J	0336-706
Temperature module type K	0336-705
Temperature module type Pt100	0336-704



Attenuator



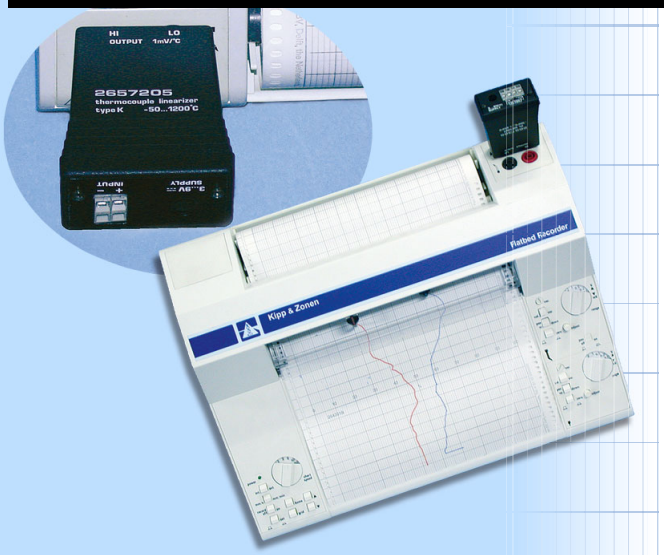
Temperature Module

c UL US LISTED CE

The new electronic design not only fulfils the CE requirements but also the new cUL mark is applied for world-wide recognition of its safety.

BD 11 / BD 12

COMPACT FLATBED RECORDER



GENERAL SPECIFICATIONS

recording system	potentiometric servo balance system
recording paper	roll chart
pens	disposable fibre tip cartridges
power supply	93.5 - 132 V / 187 - 264 V, 50/60 Hz (voltage selector) max. consumption 30 VA (1 channel), 40 VA (2 channels)
safety	Certified in accordance with cUL 3101-1 and IEC 1010-1
emission	EN 50081-1 (group standard) RFI: EN 55022
imission	EN 50082-1 (group standard) ESD: IEC 1000-4-2 EMF: IEC 1000-4-3 EFT: IEC 1000-4-4

ENVIRONMENTAL CONDITIONS

ambient temperature range	operating: -10 ºC to +40 ºC, storage: -40 ºC to +75 ºC
relative humidity	operating: 20 % - 85 % non condensing, storage 5 % - 95 %
housing material	Bay Blend no FR 110-00005; colour: white
flammability rating	according to UL 94 V-0
weight	3.5 kg including roll of chart
dimensions	380 x 290 x 90 mm (W x D x H)

SERVO SYSTEM

span settings	1-2-5-10-20-50-100-200-500 mV, 1-2-5-10-20 V
pen travel	200 mm
number of pens	1 or 2, factory installed
pen response time	< 0.2 s for 5 % - 95 % fsd (full scale deflection)
span accuracy	< 0.3 % fsd
non linearity	< 0.3 % fsd
dead zone	< 0.2 % fsd
input terminals	2 safety terminals
input impedance	1 MΩ for DC, 10 kΩ in series with 1.5 µF for AC
input configuration	floating
maximum input voltage	42 VDC / 30 VAC (personal safety limits)
zero adjustment	-50 % to +150 % full scale
zero	selectable left-hand or right-hand side off the paper (default left)
zero drift	< 1 µV/ ºC

The motors used in the models are from the same brand and similar to the ones used in the Mars Pathfinder.

common mode rejection	130 dB (DC and 50 Hz AC)
variable range setting	40 % - 100 % of selected span
pen lift	mechanical, pen 1 and 2 combined up/down (BD 11 / BD 12) electrical, pen 1 and 2 independent up/down (BD 11E / BD 12E)

CHART DRIVE SYSTEM

speed setting	0.1-0.2-0.5.1-2-5-10-20 mm/min or mm/sec
step size	0.05 mm
inaccuracy time-base	better than +/- 50 ppm
recording paper	chart roll according to DIN 16230
paper length	25 metres

STANDARD INCLUDED

manual, power cord, fuses, chart roll, one pen per channel

OPTIONS

POC module for channel 2 with RS-232-C output [1])

RS-232-C output for channel 1 [1])

[1]) RS-232-C output only in combination with BD 11E / BD 12E

Dust cover

Safety banana plugs

Flight case

Spillage cover

19" rack mount

RECORDERS & DATA ACQUISITION

Kipp & Zonen B.V. reserve the right to alter specifications of the equipment described in this documentation without prior notice

4414-486-41W

Kipp & Zonen

Kipp & Zonen B.V.
Röntgenweg 1 2624 BD Delft
P.O. Box 507 2600 AM Delft
The Netherlands

T +31 (0)15 2698 000
F +31 (0)15 2620 351
E info.holland@kippzonen.com

Your local dealer:
Gengenbach Messtechnik
Heinrich-Otto-Straße 3
D-73262 Reichenbach / Fils

T +49 (0)7153 9258 -0
F +49 (0)7153 9258 -160
E info@rg-messtechnik.de
WWW.RG-MESSTECHNIK.DE

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP