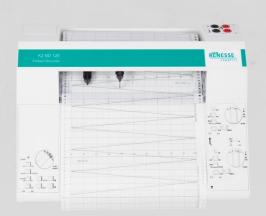


KZ BD11E/BD12E

Compact Flatbed Recorder



FEATURES

- Modern ergonometric design
- State of the art technology
- One or two channel
- Differential inputs
- Event marker per channel
- User selectable left and right zero-position
- Chart drive with home and grid function
- Electrical pen lift
- Remote control for chart drive
- Paper advance / rewind function

ABOUT

Formally manufactured by Kipp & Zonen, this line of instruments is based on a proven robust and reliable design that is recognized world-wide as being the standard in recording.

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

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

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

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

TWO DIFFERENT MODELS

BD11E - Single channel (1 pen)

BD12E - Dual channel (2 pens)

VOLTAGE INPUT ACCESSORIES	ITEM NO.
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
Temperature module type J	0350-732
Temperature module type K	0350-731
Transport case	2067-033

PAPER	ITEM NO.
XR9 chart roll	2643-918
XR18 chart roll	2643-962

- (-)	
XR12/1 Red, set of 5	2643-909
XR12/2 Blue, set of 5	2643-852
XR12/3 Green, set of 5	2643-910
XR12/4 Black, set of 5	2643-908

ITEM NO.

PENS (SET OF 5)

RECORDERS & DATA ACQUISITION



KZ BD11E/BD12E

Compact Flatbed Recorder

GENERAL SPECIFICATIONS

potentiometric servo balance system recording system

recording paper roll chart

disposable fibre tip cartridges pens

power supply 93.5 - 132V / 187 - 264V, 50/60Hz

(voltage selector)

max. consumption 30 VA (1 channel),

40VA (2 channels)

safety certified in accordance with cUL 3101-1

and IEC 1010-1

EN 50081-1 (group standard)

RFI: EN 55022

ENVIRONMENTAL CONDITIONS

operating: -10 °C to +40 °C ambient temperature

storage: -40 °C to +75 °C range

operating: 20 % - 85 % relative humidity

non condensing: storage 5 % - 95 %

Bay Blend no. FR 110-00005 housing material

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 accuracy

non linearity dead zone

1-2-5-10-20-50-100-200-500 mV, span settings

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)

> < 0.3 % fsd < 0.3 % fsd < 0.2 % fsd

input terminals 2 safety terminals

input impedance 1 $M\Omega$ for DC, 10 $k\Omega$ in series $% \left(1\right) =0$ with

1.5 μF for AC input

configuration

maximum input voltage 42 VDC / 30 VAC (personal safety limits)

zero adjustment -50 % to +150 % full scale

selectable left-hand or right-hand side off the zero

paper (default left)

zero drift < 1 µV/ ºC



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

130 dB (DC and 50 Hz AC) common mode rejection

variable range setting 40% - 100% of selected pen

pen lift electrical, pen 1 and 2

independent up/down

CHART DRIVE SYSTEM

speed setting 0.1-0.2-0.5-1-2-5-10-20

mm/min or mm/sec

0.05 mm step size

inaccuracy time-base better than +/- 50 ppm

recording paper chart roll according to DIN 16230

paper length 25 meters

STANDARD INCLUDED

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

channel

OPTIONS

Safety banana plugs

Flight case

Van Renesse Supplies B.V. reserve the right to alter specifications of the equipment described in this documentation without prior notice