Model Code / Additional Spec. Code (No entry if additional spec. code is not specified.)
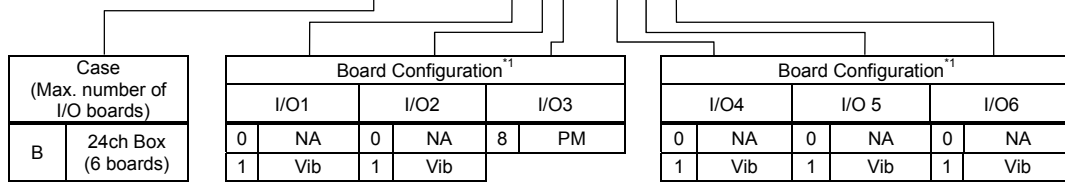
KJ - 2000B - 30 - A□□8 - □□□ - 000 - 000

Case (Max. number of I/O boards)		Board Configuration[*1]						Board Configuration[*1]					
		I/O1		I/O2		I/O3		I/O4		I/O 5		I/O6	
B	24ch Box (6 boards)	0	NA	0	NA	8	PM	0	NA	0	NA	0	NA
		1	Vib	1	Vib			1	Vib	1	Vib	1	Vib

*1 The maximum number of input channels on an analysis board (vibration signal input) or a phase marker board is 4.

NA : I/O board is not available.(Enter "0")

Vib : An analysis board (vibration signal input) can be mounted in this slot. (Enter "1".)

PM : A phase marker board is mounted in this slot.

Specification

INPUT

ANALYSIS BOARD (VIBRATION SIGNAL INPUT)
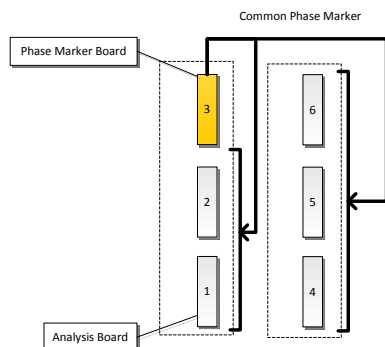
Number of input channels : 4 ch
Maximum number of boards
            : 5 boards per unit.[*2]
Input voltage range   : -25 V to +25 V
            (Accuracy guaranteed : -20 V to +20 V)
Input impedance   : Approx. 50 kΩ
Connector type   : BNC connector

PHASE MARKER BOARD (PHASE MARKER SIGNAL INPUT)

Number of input channels : 4 ch
Number of boards   : 1 board per unit.[*2][*3]
Input voltage range   : -25 V to +25 V
Min. pulse width   : 50µsec
Triggering   : Auto/manual operation
Input impedance   : Approx. 50 kΩ
Rotation speed range : 60 rpm to 60,000 rpm[*4]
Connector type   : BNC connector

*2 Relation between the number of inputs and the number of I/O board
Total inputs (vibration) = Number of analysis boards x 4
Number of analysis boards $\leqq$ 5

*3 Distribution of phase marker signal
"I/O3" Phase marker signal can be used with all boards other than "I/O3" board.

Common Phase Marker

*4 Transient can be measured at a speed up to 15,000 rpm.

※ As this input circuit is not single-ended type, isolation between the channels is not provided. If input signal contains noise, use an isolator to prevent it.

OUTPUT

Transducer power supply :
     Piezoelectric transducer : +24VDC/4mA (constant current)

SYNCHRONOUS WAVEFORM DATA ACQUISITION

Spectral resolution   : 400/800/1600/3200 line
Number of samples   : 32/64/128 samples per revolution
Sampling frequency   : Up to 51.2 kHz
Data acquisition interval : 0.1 sec/0.2 sec/0.5 sec/1 sec/2 sec/5 sec/10 sec[*5]

   *5 It may vary depending on the number of spectrum resolution lines and the number of vibration inputs.

ASYNCHRONOUS WAVEFORM DATA ACQUISITION

Spectral resolution   : 400/800/1600/3200 line
Sampling frequency   : Up to 51.2 kHz
Data acquisition interval : 0.1 sec/0.2 sec/0.5 sec/1 sec/2 sec/5 sec/10 sec[*6]

   *6 It may vary depending on the number of spectrum resolution lines and the number of vibration inputs.

TREND DATA ACQUISITION

item   : Rotor speed, GAP
                  Amplitude (Overall,0.5X, 1X, 2X, Not-1X,
                     nX1 to nX4[*7], f1, f2[*8], S(p-p) max)
                  Phase (0.5X, 1X, 2X, nX1 to nX4[*7])[*9]
Data acquisition interval : 0.1 sec/0.2 sec/0.5 sec/1 sec[*10]

*7 Vibration amplitude and phase angle at n times rotation synchronous frequency.
            (n = 0.01 to 10.00 in 0.01 increments)
*8 Vibration amplitude at specified frequency component (f).
            (f = 0.01 to 20,000.00 Hz in 0.01 Hz increments)
*9 Phase mark is available only during displacement vibration measurement.
*10 It may vary depending on the number of vibration inputs.

ANALYSIS ACCURACY

Amplitude accuracy   :
            Overall, 0.5X, 1X, 2X, nX(n=0.01 to 10.00), Not-1X
            : ±3% Max. of F.S. at 25°C
            ±5% Max. of F.S. at 0°C to 45°C
            (for machine speed less than 30,000 r/min)
         $S_{(p-p) max}$
            : ±5% Max. of F.S. at 25°C
            ±7% Max. of F.S. at 0°C to 45°C
Phase accuracy   : 0.5X, 1X, 2X
            : ±3 deg. of rdg. at 25°C
            ±6 deg. of rdg. at 0°C to 45°C

STATUS INDICATION LIGHT (FRONT PANEL)

POWER LED (Orange) : ON, when power is on.
ALARM LED (Red)   : ON, when alarming.
COMM LED (Green)   : ON, when connecting.
                      Flashing, when communicating.

SHINKAWA Sensor Technology, Inc.

6H15-008 Rev.1
Issued   : May. 2015
Revised   : Sep. 2015

Specification

ANALYSIS SOFTWARE COMMUNICATION

Network : Ethernet 100Base-TX
Protocol : TCP / IP
Connector : RJ-45

POWER

Rated voltage : 24 VDC (Supplied with dedicated AC adapter)
Voltage range : 85 -264 VAC (Dedicated AC adapter)

POWER CONSUMPTION

Power consumption : 70 VA (Max.)

ENVIRONMENTAL CONDITION

Portable Data Acquisition Unit

Operating temperature : -10°C to +45°C
Storage temperature : -30°C to +85°C
Relative humidity : 20 to 90% RH (non-condensing, non-submerged)

AC Adaptor

Operating temperature : +0°C to +40°C
Storage temperature : -10°C to +60°C
Relative humidity : 20 to 80% RH (non-condensing, non-submerged)

INSULATION RESISTANCE

Between power supply and GND : 100 MΩ at 500 VDC (AC adaptor)

DIELECTRIC STRENGTH

Between power supply and GND : 1500 VAC one minute (AC adaptor)

DIMENSIONS

Approx. 96 (W) x 224 (H) x 163 (D) mm (Excluding the projection parts)

WEIGHTS

At full load : Max. 2.6 kg (5.7lb)
(Excluding the AC adapter and cables)

STANDARD ACCESSORIES

AC adapter : 1
LAN cable : 1 (3 m, crossover)

SEPARATELY SOLD ITEM

Kenjin original carrying bag
: 7072NAP

RELATED SOFTWARE

Kenjin XJ-2000 Analysis Software
: software to configure KJ-2000.
software to analyze vibration on PC.
Kenjin XJ-2100 Analysis Software
: software to configure KJ-2000.
software to analyze vibration on PC.

※The specifications and other items indicated herein are subject to change without notice.

Default Value

INPUT (VIBRATION)

Monitoring : Displacement vibration input
Monitor range : 0 to 100μm p-p
Input transducer : FK-202F (non-intrinsic safety)

INPUT (PHASE MARKER)

Input Signal : Generic Sensor
Trigger Mode : Auto
Hysteresis : 1.0 V

COMMUNICATION

IP Adress : 192.168.8.200
Subnet mask : 255.255.255.0
Port No. : 8882

I/O Board Location

Appearance	I/O Board Location