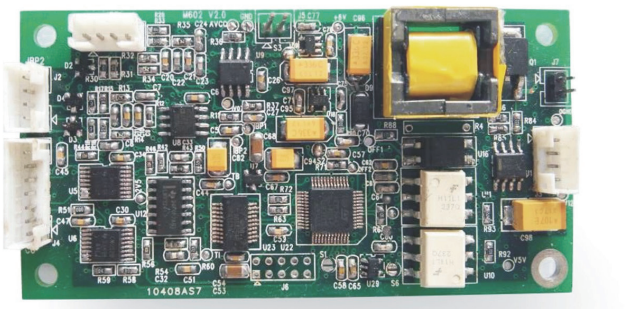
Invasive Blood Pressure Cardiac Output

MCO2IBP

Used for integration in monitoring products, suitable for applications that require invasive blood pressure and cardiac output measurement in clinical ICU / CCU / OR and other places.



Dimension： 87mm×45mm×15mm

IBP

PR

Tb

Ti

CO

Features

> One-channel cardiac output measurement

> Carry out 12 hemodynamic parameter calculations after inputting relevant parameters

> Support Ti related information settings

> Support the setting of floating pipe coefficient

> Support setting CO measurement time interval

> Two independent IBP measurement channels, including: systolic blood pressure, diastolic blood pressure, average blood pressure, pulse rate calculation

> Support setting IBP channel information

> Support setting IBP average time

> Support zero calibration and calibration operations of each IBP channel

> Support filter settings of each IBP channel

Specifications

PR

Range: 25~300bpm
Accuracy: ±3bpm or ±2%(Whichever is greater)
Resolution: 1bpm

IBP

Range: -50~350mmHg
Accuracy: ±2mmHg or ±1% (Whichever is greater)
Resolution: 1mmHg

Tb

Range: 23.0~45.0℃
Accuracy: ±0.5℃
Resolution: 0.1℃

Ti

Range: -1.0 ~ 27.0℃
Accuracy: ±0.5℃
Resolution: 0.1℃

CO

Range: 0.20~20.00L/Min
Accuracy: ±0.2L/Min or ±5%(Whichever is greater)
Resolution: 0.01 L/Min

Compliance

Standard: IEC 60601-2-34:2014

Electical Specification

Power supply	DC 12 V±10%
Power consumption	≤5W
Communication	TTL,USART
Temperature	Operating 10℃~ 40℃ (50℉ ~ 113℉) Storage -20℃~ 55℃ (4℉ ~ 131℉)

Sensor characteristics requirements

IBP sensor

Sensitivity: 5uv/mmHg/V
Impedance: 300-5000Ω

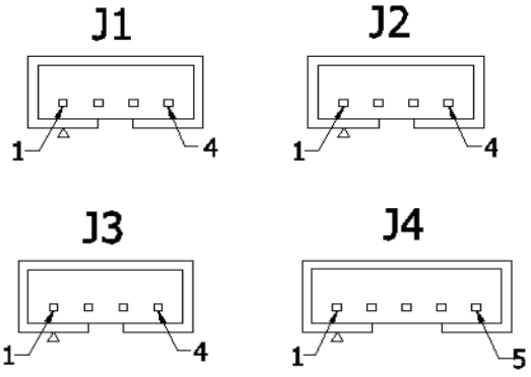
CO sensor/Tb

Sensitivity: 520Ω/℃
Nominal resistance: 14KΩ

Interfaces

Module interface socket pin definition

The pin definitions are shown in the table below:



Pin No	1	2	3	4	5
J1	*IBP1+*	*IBP1-*	*GND*	*AVCC*	-
J2	*IBP2+*	*IBP2-*	*GND*	*AVCC*	-
J3	*TXD*	*RXD*	*DGND*	*DC12V*	-
J4	*TI_IN1*	*TIGND*	*TB_IN*	*TBGND*	*TB_CL_IN*

Note: 1. TXD is the data sent by the CO/IBP module to the host, in TTL level mode.

2. The J1, J2, and J3 sockets use the 2.0 spacing specification, and the J4 socket uses the 2.54 spacing specification.

Module and External Connector Description

Signal input interface of IBP1

J1 is the 4Pins connection port, two of which are the pressure output terminals IBP1+ and IBP1-, pay attention to the polarity of the signal connection;

The other two are DC power supplies.

Signal input interface of IBP2

J2 is the 4Pins connection port, two of which are the pressure output terminals IBP2+ and IBP2-, pay attention to the polarity of the signal connection;

The other two are DC power supplies.

Interface of digital signal input and power input

J3 is a 4Pins connection port, two of which are serial transceivers TXD and RXD, TTL level;

the other two are direct current power input.

Signal input interface for CO

J4 is the 5Pins connection port, of which 1 and 2 are the injection temperature signal port, 3 and 4 are the blood temperature signal port, 5 is the input end of the temperature calibration signal, and 2 and 4 are the two ground terminals (which are common).

Purchase Guider

Code	Name	Quantity	Image
022-090101-00	**MCO2IBP Module**	x1	
041-027001-00	**IBP cable** 6-pin IBP cable IBP Core Part- Regular Abbott type	x2	
041-005001-00	**CO cable**	x1	
041-027002-00	**IBP disposable transducer** Applicable to adult/Pediatric/Infant	x2	
022-990501-00	**Connector board**	x1	
009-030319-00	**Internal cable IBP**	x2	
009-030326-00	**Internal cable CO**	x1	

* The data is subject to change without notice. Please refer to the manual for the contraindications and precautions

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