



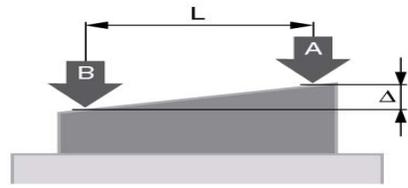
PC type electronic micrometer



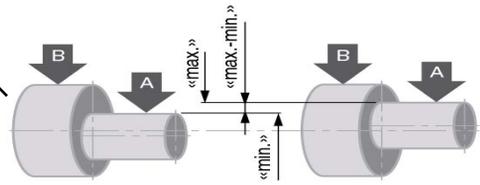
RS232C



PC



Taper measuring



In/out diameter.. etc.

High Precision Electronic micrometer - PC type

ML-16/32P-CT1

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Specifications

1. General Specifications

DIVISION	GENERAL
MAIN SUPPLY	AC100-220V~ 50/60Hz
MAX.POWER CONSUMTION	30W
OPERATING TEMPERATURE	5 ~ 40°C
RELATIVE HUMIDITY	Up To 70%
OPERATING CONDITION	NO CORROSIVE GAS AND DUST
SUPPORTING OUTAGE	DATA BACK UP BY INNER FLASH MEMORY

2. Specifications

DIVISION		SPECIFICATIONS
AMP	CHANNELS	ML-16P-CT1: Probe Max 16ch. (Max. Air 3ch) ML-32P-CT1: Probe Max 32ch. (Max. Air 12ch)
	RESOLUTION	1um (Air 0.1um)
DIMENSION		ML-16P-CT1: W280×D290×H140(mm) ML-32P-CT1: W360×D290×H151(mm)
WEIGHT		6kg
OUTER INTERFACE		RS232C

Serial Communication

1. Transmit setting

Division	Specification
<ul style="list-style-type: none"> Interface Port 	<ul style="list-style-type: none"> RS232C RS232C PORT ⇔ 1 Channel Asynchronous
<ul style="list-style-type: none"> Character organization 	<ul style="list-style-type: none"> DATA BIT ⇔ 8 Bit PARITY BIT ⇔ None STOP BIT ⇔ 1 Bit
<ul style="list-style-type: none"> Communication code Communication speed 	<ul style="list-style-type: none"> ASCII Code 9600 Baud (Fixed)

2. Cable setting

Elec' micrometer		Direction of signal	Computer	
Signal	Pin No.		Pin No.	Signal
N.C	1		1	DC
RD	2		2	RD
TD	3		3	TD
N.C	4		4	DTR
SG	5		5	SG
N.C	6		6	DSR
N.C	7		7	RTS
N.C	8		8	CTS
N.C	9		9	RI

- Cable of computer serial working terminal - Connect 4P, 6P & Connect 7P, 8P

Serial Communication

3. Output types for communication

- Hex Format

STX (1 Byte)	STATUS (1 Byte)	MEASURING DATA (n Byte)	ETX (1 Byte)
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(n = Transmit Data Q'ty x 2)

- ASCII Format / POINT = NO

Byte	1	2	1	2	1	5*n+(n-1)	1	1	2	1	1
Char	ENQ	Start Point	,	End Point	,	Data	,	ETX	@@	CR	LF

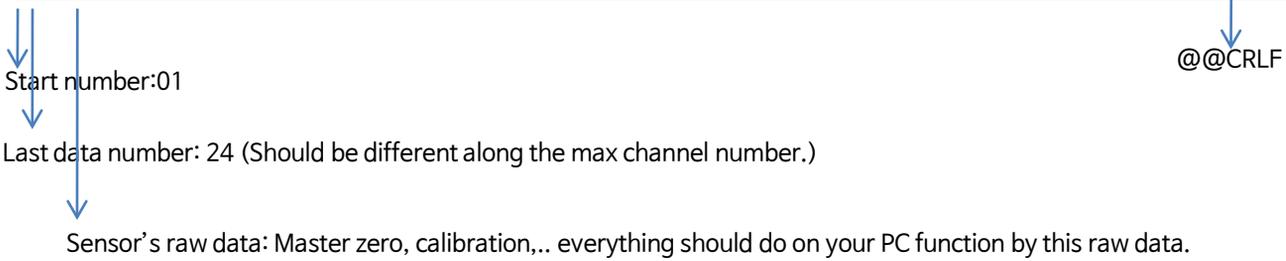
Ex) In case of No. of Data is 2.

1	2	1	2	1	5	1	5	1	1	2	1	1
ENQ	01	,	02	,	+0043	,	-0025	,	ETX	@@	CR	LF

- Example

```

COM6 - Tera Term VT
File Edit Setup Control Window Help
01,24,+0007,+0005,+0004,+0007,+0007,+0007,+0010,+0007,-0833,-1116,-1805,-2047,+0005,+0006,+0007,+0004,+0011,+0013,+0015,+0001,+0001,+0002,+0007,+000500
01,24,+0007,+0005,+0005,+0007,+0007,+0007,+0010,+0007,-0839,-1121,-1806,-2047,+0005,+0006,+0007,+0004,+0011,+0013,+0016,+0001,+0001,+0002,+0007,+000500
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I/O pin configuration - Air type doesn't use IO function

- *I/O card is an option. If there's no I/O card, the data is out continuously.
- *I/O signal type is NPN! Don't use with PNP type.

Pin	Name	In/Out		Description	Circuit
1	NCOMMON		0 V	GROUND	<p>The circuit diagrams show the internal wiring for the I/O pins. The 'INPUT (START)' diagram shows a +24V supply connected to a 2.2k resistor, which is connected to the base of an NPN transistor. The emitter is grounded, and the collector is connected to the 'INPUT' pin. The 'OUTPUT (READY)' diagram shows an NPN transistor with its emitter grounded and its collector connected to a 'LOAD' resistor, which is then connected to the 'OUTPUT' pin. The transistor's base is connected to the 'READY' pin. The 'OUTPUT' pin is also connected to a 'COM' terminal, which is connected to a 'POWER' supply.</p>
3	N.C		H/L		
4	N.C		H/L		
5	SCAN	in	H/L	Scan signal	
6	CLEAR	in	H/L	Zero clear signal	
7	ZERO	in	H/L	Zero signal	
8	START	in	H/L	Meas. Start signal	
9	N.C		H/L		
10	READY	out	H/L	READY signal	
11	N.C				
12	N.C				
13	N.C		H/L		
14	N.C		H/L		

- Scan: Data is out continuously during this signal is on.
- Clear: To clear current zero setting.
- Zero: Master zero setting.
- Start: To start the measuring once.

High Precision Electronic Micrometer

