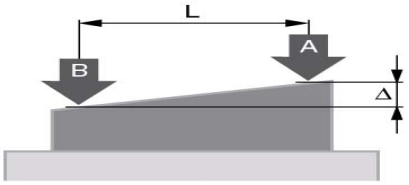
DONG DO EI

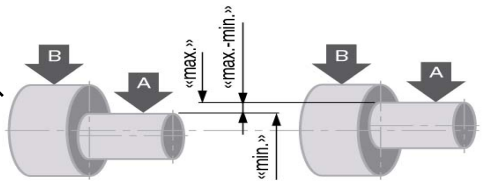
PC type electronic micrometer

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℃
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(㎜) ML-32P-CT1: W360×D290×H151(㎜)
WEIGHT		6kg
OUTER INTERFACE		RS232C

Serial Communication

1. Transmit setting

Division	Specification
· Interface · Port	- RS232C - RS232C PORT ⇨ 1 Channel - Asynchronous
· Character organization · Communication code · Communication speed	- DATA BIT ⇨ 8 Bit - PARITY BIT ⇨ None - STOP BIT ⇨ 1 Bit - 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)

(n = Transmit Data Q'ty x 2)

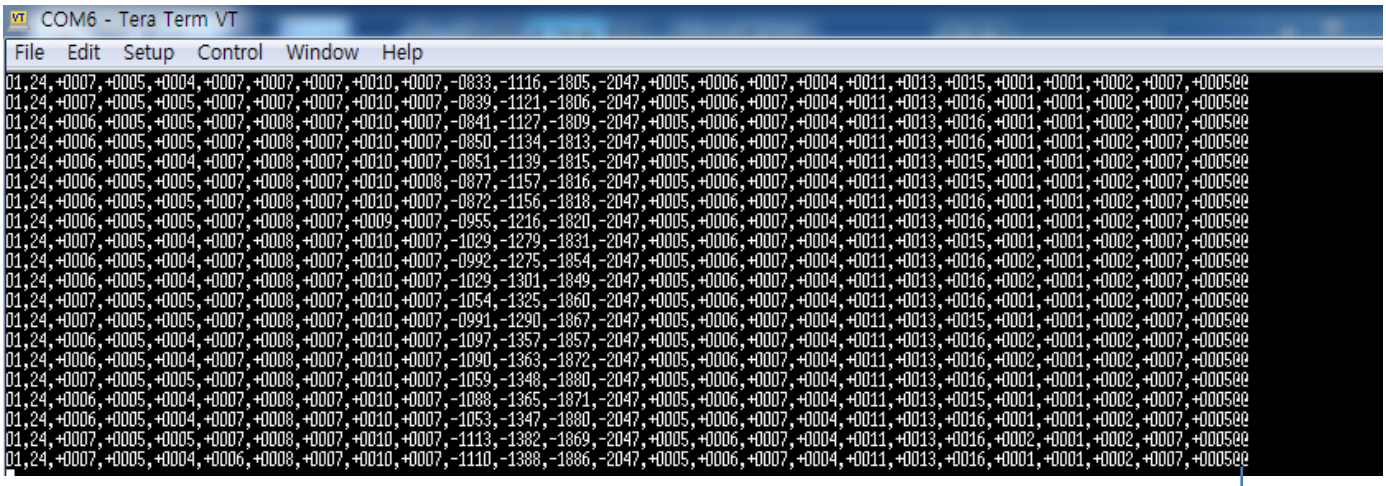
- ASCII Format / POINT = NO

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.

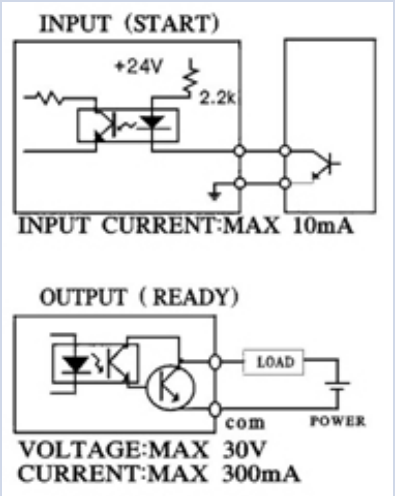
1	2	1	2	1	5	1	5	1	1	2	1	1
ENQ	01	,	02	,	+0043	,	-0025	,	ETX	@@	CR	LF

- Example



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	
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.

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