SONY

Catalog No.477

Digital Gauging System

Display
LT20 Series

Compact, lightweight and easy-to-mount display

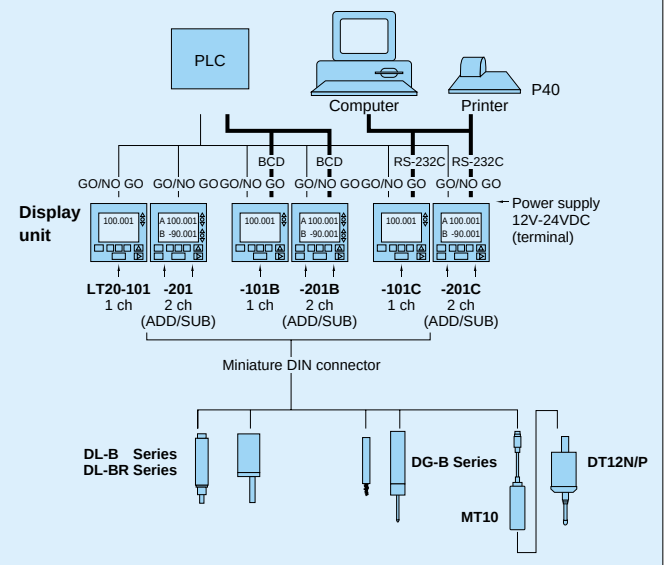
Features

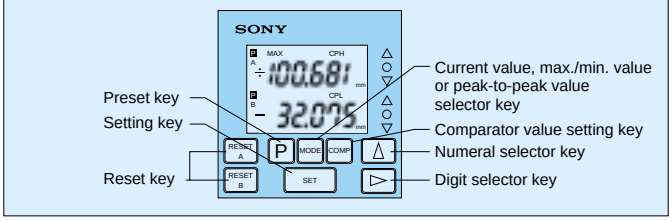
- BCD and RS-232C I/O models to choose from.
- Compact design : DIN standard size (72 mm × 72 mm)
- Operates on 12 V DC to 24 V DC.
- Comparator
  - 3-range comparison
  - 4 different settings of reference points (B type)
  - Go/No Go evaluation by LED display and open collector output
- Reset/Preset
- Inch/Metric conversion
- Alarm for exceeded max. response speed and disconnected measuring unit
- Data storage : resolution, counting direction, comparator reference points, preset value, mode, BCD sign (B type), communication parameters (C type)
- 2-axis ADD/SUB (2-axis model only)

Applications

- Sorting out of rejects and data management.

■ System Configuration





★Input/output pins

Terminals

Inputs : Reset, peak hold start, 12 to 24 V DC power

Outputs : GO/NO GO (open collector)

BCD (36-pin half-pitch connector)

Inputs : comparator value selection (4 settings), mode setting

Outputs : 6 digits (open collector)

Current value, maximum measured value, minimum measured value or peak-to-peak value output depending on selection, alarm output

RS-232C (8-pin mini DIN connector)

Reset, preset value setting, recall, peak hold start, comparator value setting, current value, maximum measured value, minimum measured value, peak-to-peak value selection and output

EXT. IN jack (mini jack)

Data output start

■ Display Unit

Model		LT20-101	LT20-101B	LT20-101C	LT20-201	LT20-201B	LT20-201C
Display		6-digit backlighted LCD display, mode indication					
I/O	Measuring unit inputs	miniature 10-pin DIN connector					
		1ch			2 ch		
	Terminals	●					
	BCD	—	●	—	—	●	—
	RS-232C	—	—	●	—	—	●
	Ext. inputs	—	—	●	—	—	●
Reset		Reset Key and inputs from terminals					
		—	—	RS-232C command	—	—	RS-232C command
Preset		Preset with preset key and recall with reset key and inputs from terminals					
		—	—	RS-232C command	—	—	RS-232C command
Comparator		3-range comparator ; Comparator value setting with key switch ; Go/No Go evaluation is displayed by LED and output from termnals (open collector)					
		—	4 different settings of reference points selected via BCD	—	—	4 different settings of reference points selected via BCD	—
Peak hold		Measuring of max./min./p-p value started by reset key and inputs from terminals					
		—	—	Started by RS-232C command	—	—	Started by RS-232C command
Mode setting		Measuring mode setting with mode key					
		—	Setting on BCD terminals	Setting by RS-232C command	—	Setting on BCD terminals	Setting by RS-232C command
Input resolution		Selectable from 0.01 mm/0.005 mm/0.001mm/0.0005 mm (set to measuring unit's resolution)					
Display resolution		Selectable from 0.01 mm/0.005 mm/0.001 mm/0.0005mm (0.0005"/0.0002"/0.00005"/0.00002") (resolutions higher than measuring unit's not selectable)					
Direction		Selectable					
Inch/mm		Selectable					
ADD/SUB		—			A＋B, A－B, B－A		
Alarm		Response speed exceeded or measuring unit disconnected Display on LCD, all the comparator outputs on terminals OFF					
		—	BCD alarm terminal OFF	RS-232C E output	—	BCD alarm terminal OFF	RS-232C E output
Data storage		Resolution, counting direction, comparator reference points, preset values, measuring mode					
		—	BCD logic (positive/negative)	Communication parameters	—	BCD logic (positive/negative)	Communication parameters
Operating Temperature		0°C to 40°C (32°F to 104°F)					
Storage temperature		−10°C to 50°C (14°F to 122°F)					
Power supply		Terminals : 10.8 V DC to 26.4 V DC					
Power consumption		8W max. (with measuring unit connected)					
Dimensions		72 mm×72 mm×93 mm (104.5 mm incl. Terminals)					

•Designs and appearances are subject to change without prior notice.

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