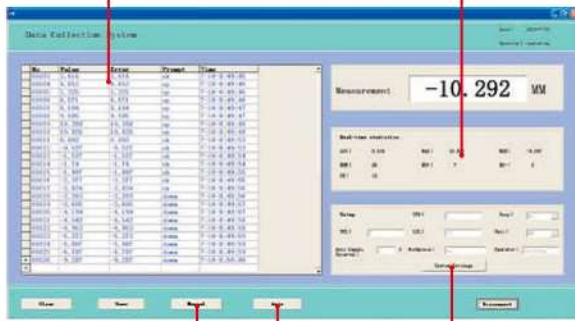


RS232 DATA OUTPUT CABLES



automatic judgment by setting tolerance

test result display (maximum value, minimum value, total quantity of workpiece, quantity of Go and No-Go, quantity of exceed upper tolerance and exceed lower tolerance)



manual sampling automatic sampling set auto sampling interval and tolerance



7305-SPC1A



7305-SPC2A

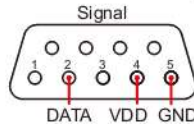


USB power port

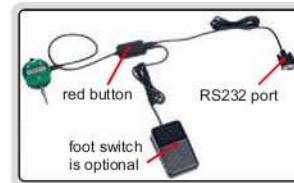
7305-SPC3



foot switch (optional)
7304-2



- Manual sampling and automatic sampling
- Press manual sampling button in software or red button on cable or foot switch once to collect the reading from measuring tool once
- Can be used in Windows Hyperterminal
- Supplied with software
- Voltage required: 5-10V
- Cable length 2.5m



software CD (included)

Code	Applicable products
7305-SPC1A	digital indicators digital protractors
7305-SPC2A	digital calipers and digital depth gages (not for 1103)
7305-SPC3	digital micrometers (not for 3631, 3632, 3108, 3109, 3635)
7305-SPC3A	digital micrometers (not for 3631, 3632, 3108, 3109, 3635)
7304-2	foot switch with cable (length 1.5m), optional

DIGITAL HORIZONTAL SCALES

DATA OUTPUT

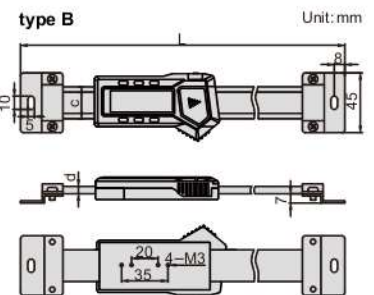
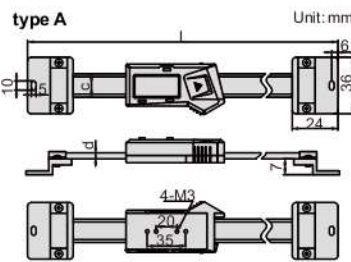
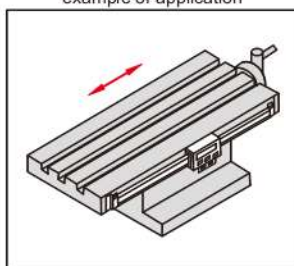
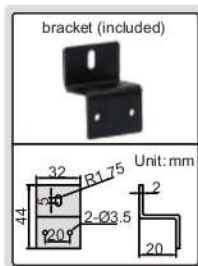


7101-300A



7101-400A

example of application



Code	Range	Type	Accuracy	L	c	d
7101-100A	100mm	A	±0.02mm	215	16	4
7101-150A	150mm	A	±0.03mm	265	16	4
7101-200A	200mm	A	±0.03mm	315	16	4
7101-300A	300mm	A	±0.04mm	445	16	4
7101-400A	400mm	B	±0.05mm	590	24	5.5
7101-500A	500mm	B	±0.05mm	690	24	5.5
7101-600A	600mm	B	±0.08mm	790	24	5.5
7101-800A	800mm	B	±0.10mm	990	24	5.5
7101-1000A	1000mm	B	±0.10mm	1190	31	10.5

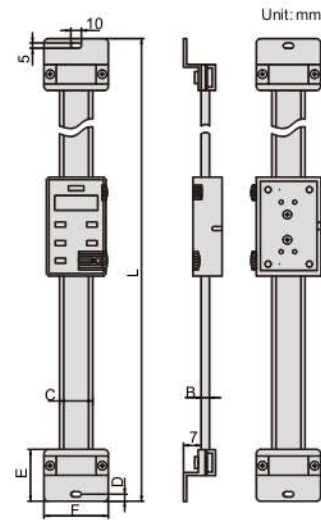
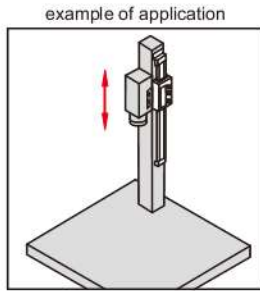
- Resolution: 0.01mm/0.0005"
 - Buttons: on/off, zero, mm/inch
 - Automatic power off, move the digital unit to turn on power
 - Battery CR2032
 - Data output
 - Made of stainless steel
 - Supplied with bracket to be mounted on the back
 - Optional accessory: data output cable (code 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)
- Resolution: 0.01mm/0.0005"
 - Button function: on/off, zero, mm/inch, ABS, data preset
 - Absolute and incremental measurement
 - Battery CR2032
 - Data output
 - Made of stainless steel
 - Supplied with bracket to be mounted on the back
 - Optional accessory: data output cable (code 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

DATA OUTPUT

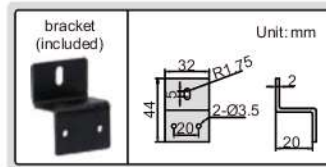


DIGITAL VERTICAL SCALES

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS/INC, data hold, TOL, set
- ABS/INC is for absolute and incremental measurement
- TOL is for tolerance measurement
- Battery LR44
- Data output
- Made of stainless steel
- Supplied with bracket to be mounted on the back
- Optional accessory: data output cable (code 7301-SPC5)



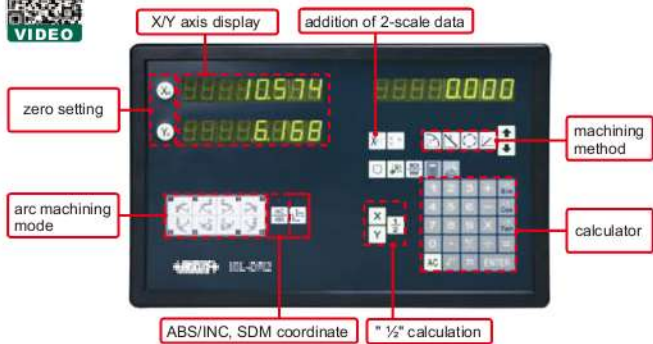
Code	Range	Accuracy	B	C	D	E	F	L	(mm)
7102-100	100mm/4"	±0.02mm	4	20	6	24	40	245	
7102-150	150mm/6"	±0.03mm	4	20	6	24	40	296	
7102-200	200mm/8"	±0.03mm	4	20	6	24	40	345	
7102-300	300mm/12"	±0.04mm	4	20	6	24	40	445	
7102-400	400mm/16"	±0.05mm	4	20	6	24	40	545	
7102-500	500mm/20"	±0.05mm	5.5	24	8	32	45	685	
7102-600	600mm/24"	±0.08mm	5.5	24	8	32	45	785	
7102-800	800mm/32"	±0.10mm	5.5	24	8	32	45	985	
7102-1000	1000mm/40"	±0.10mm	5.5	24	8	32	45	1185	



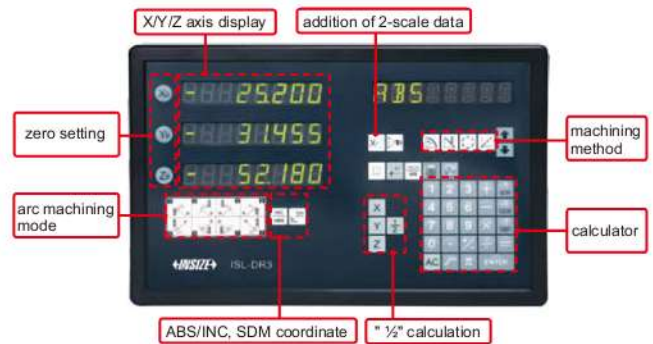
7102-300



COUNTERS



ISL-DR2



ISL-DR3

SPECIFICATION

Code	ISL-DR2	ISL-DR3
Application	two-axis	three-axis
Scale input ports	2	3
Resolution	0.05µm, 0.1µm, 0.2µm, 0.5µm, 1µm, 2µm, 5µm, 10µm, 20µm, 50µm	
Functions	addition of 2-scale data, linearity error compensation, smoothing, RS232C interface unit, BCD code out, zero setting, preset, resolution setting, counting direction setting, inch/mm conversion, ABS/INC conversion, expansion/contraction coefficient setting, "1/2" calculation, detecting RI, bolt-hole circle machining, ramp circle machining	
Power supply	110/220V, 50/60Hz	
Dimension	295×185×45mm	
Weight	1.45kg	

STANDARD DELIVERY

Main unit	1pc
Mounting bracket	1pc
Ground cable	1pc
RS232C cable	1pc
Software CD for RS232C	1pc



software CD (included)



mounting bracket (included)



LINEAR SCALES

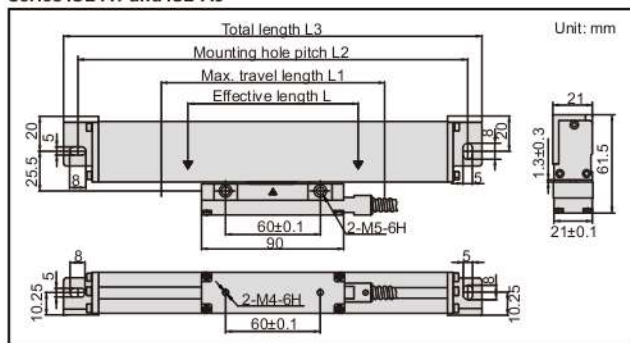


VIDEO

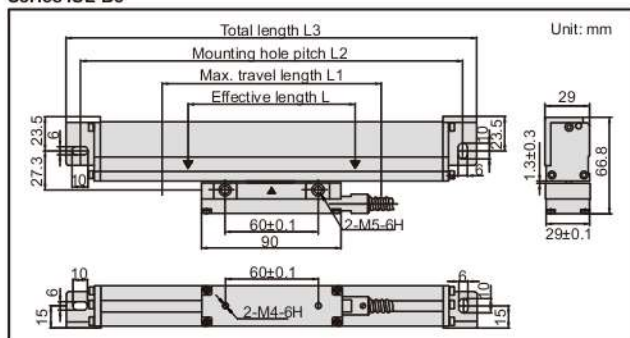


ISL-A1-300

Series ISL-A1 and ISL-A5

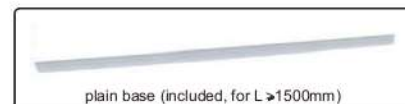
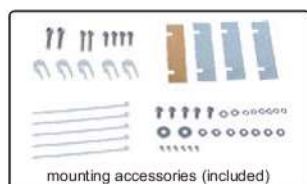
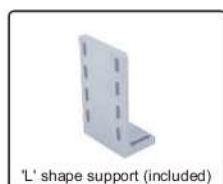


Series ISL-B5



STANDARD DELIVERY

Main unit	1pc
'L' shape support	1pc
Anti-dust cover	1pc
Plain base	1pc (for L > 1500mm)
Mounting accessories	1 package



Effective length (L)	Code		
	Series ISL-A1	Series ISL-A5	Series ISL-B5
50mm	ISL-A1-50	ISL-A5-50	ISL-B5-50
100mm	ISL-A1-100	ISL-A5-100	ISL-B5-100
150mm	ISL-A1-150	ISL-A5-150	ISL-B5-150
200mm	ISL-A1-200	ISL-A5-200	ISL-B5-200
250mm	ISL-A1-250	ISL-A5-250	ISL-B5-250
300mm	ISL-A1-300	ISL-A5-300	ISL-B5-300
350mm	ISL-A1-350	ISL-A5-350	ISL-B5-350
400mm	ISL-A1-400	ISL-A5-400	ISL-B5-400
450mm	ISL-A1-450	ISL-A5-450	ISL-B5-450
500mm	ISL-A1-500	ISL-A5-500	ISL-B5-500
550mm	ISL-A1-550	ISL-A5-550	ISL-B5-550
600mm	ISL-A1-600	ISL-A5-600	ISL-B5-600
650mm	ISL-A1-650	ISL-A5-650	ISL-B5-650
700mm	ISL-A1-700	ISL-A5-700	ISL-B5-700
750mm	ISL-A1-750	ISL-A5-750	ISL-B5-750
800mm	ISL-A1-800	ISL-A5-800	ISL-B5-800
850mm	ISL-A1-850	ISL-A5-850	ISL-B5-850
900mm	ISL-A1-900	ISL-A5-900	ISL-B5-900
950mm	ISL-A1-950	ISL-A5-950	ISL-B5-950
1000mm	ISL-A1-1000	ISL-A5-1000	ISL-B5-1000
1100mm		ISL-A5-1100	ISL-B5-1100
1200mm			ISL-B5-1200
1300mm			ISL-B5-1300
1400mm			ISL-B5-1400
1500mm			ISL-B5-1500
1600mm			ISL-B5-1600
1700mm			ISL-B5-1700
1800mm			ISL-B5-1800
1900mm			ISL-B5-1900
2000mm			ISL-B5-2000
2100mm			ISL-B5-2100
2200mm			ISL-B5-2200
2300mm			ISL-B5-2300
2400mm			ISL-B5-2400
2500mm			ISL-B5-2500
2600mm			ISL-B5-2600
2700mm			ISL-B5-2700
2800mm			ISL-B5-2800
2900mm			ISL-B5-2900
3000mm			ISL-B5-3000
3100mm			ISL-B5-3100
3200mm			ISL-B5-3200

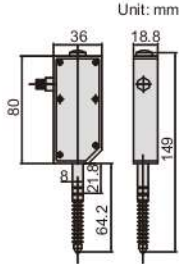
SPECIFICATION

Code	Series ISL-A1		Series ISL-A5		Series ISL-B5	
L1 (mm)	L+30(L<950)	L+50(L≥ 950)	L+30(L<950)	L+50(L≥ 950)	L+30(L<950)	L+50(L≥ 950)
L2 (mm)	L+132(L<950)	L+152(L≥ 950)	L+132(L<950)	L+152(L≥ 950)	L+136(L<950)	L+156(L≥ 950)
L3 (mm)	L+149(L<950)	L+169(L≥ 950)	L+149(L<950)	L+169(L≥ 950)	L+154(L<950)	L+174(L≥ 950)
Resolution	1µm		5µm		5µm	
Max. response speed	50m/min		90m/min		60m/min	
Scale grating pitch	20µm					
Scale reference point pitch	50mm					
Accuracy	±(5+5L/1000)µm L is the effective length in mm					
Cable length	3.5m (L: 50-950mm), 5m (L: 1000-1500mm), 10m (L: 1600-3200mm)					

LINEAR GAGE
IP65
WATERPROOF



linear gage



LINEAR GAGES AND DISPLAY UNIT



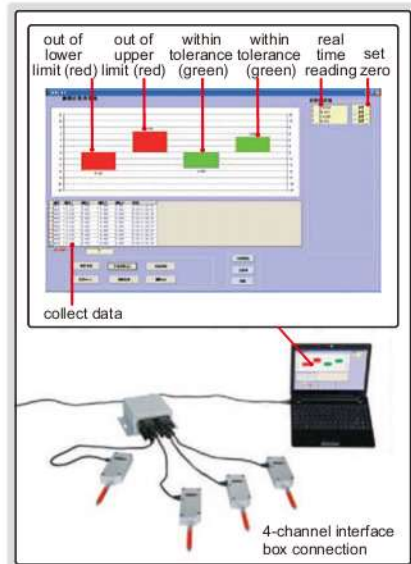
- Linear gage: shock-proof, water proof, dust proof, suitable for high speed movement, long working life
- Display unit: set tolerance and make judgment (out of upper limit, within tolerance, out of lower limit), output the judgment to control outside devices, set zero and hold reading from outside

LINEAR GAGE SPECIFICATION

Code	7106-11	7106-12
Measuring range	12mm	12mm
Resolution	0.01mm	0.001mm
Accuracy	20µm	5µm
Hysteresis	10µm	2µm
Measuring principle	capacity system	
Voltage	5V	
Sampling frequency	100 times/sec.	
Working life	ten million times	
Dust/waterproof	IP65	
Measuring force	1.5N	
Cable length	2m	
Data output	four-core wire	

DISPLAY UNIT SPECIFICATION

Code	7106-1
Display	6 digits
Quantity of linear gages to be connected	1pc
Tolerance	set tolerance and make judgment with alarm and lights (out of upper limit, within tolerance, out of lower limit)
Output control	output the tolerance judgment (out of upper tolerance, within tolerance, out of lower tolerance) to control outside devices
Outside control	control the display units from outside (set zero, hold reading)
Data output	connect to PC
Power supply	DC 9~24V

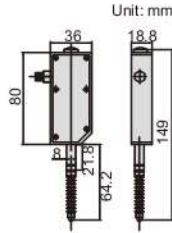


INTERFACE BOX SPECIFICATION

Code	7107-1	7107-2
Quantity of linear gages to be connected	4pcs	8pcs
Data port	RS232 and RS485	
Power supply	DC 9~24V	



linear gage



MULTI LINEAR GAGE SYSTEM

LINEAR GAGE
IP65
WATERPROOF



4-channel interface box
7107-1

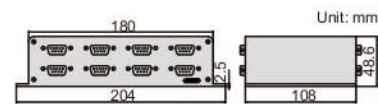


LINEAR GAGE SPECIFICATION

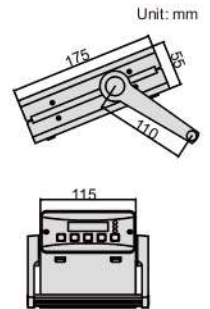
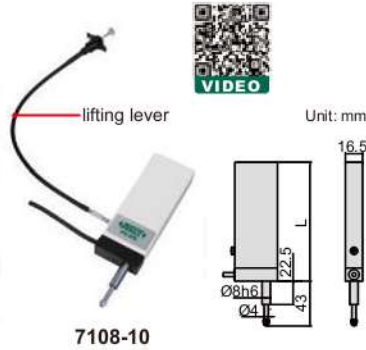
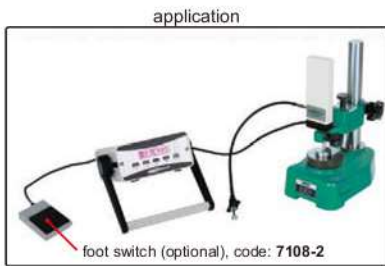
Code	7107-11	7107-12
Measuring range	12mm	12mm
Resolution	0.01mm	0.001mm
Accuracy	20µm	5µm
Hysteresis	10µm	2µm
Measuring principle	capacity system	
Voltage	5V	
Sampling frequency	100 times/sec.	
Working life	ten million times	
Dust/waterproof	IP65	
Measuring force	1.5N	
Cable length	2m	
Data output	RS232	



8-channel interface box
7107-2



HIGH PRECISION LINEAR GAGES AND DISPLAY UNIT



LINEAR GAGE SPECIFICATION

Code	7108-10	7108-30
Measuring range	10mm	30mm
Resolution	0.01µm	
Accuracy	(0.5+L/60)µm, L is measuring length in mm	
Dust/waterproof	IP50	
Output signal	1Vss	
Grating pitch	8µm	
Measuring force	0.7~1.6N	
Cable length	1.5m	
Linear gage length (L)	113.5mm	133.5mm

DISPLAY UNIT SPECIFICATION

Code	7108-1
Display	8 digits
Character height	9mm
Quantity of linear gages to be connected	single channel, to connect one linear gage *
Dust/waterproof	IP20
Display unit	mm, inch, grad
Resolution	1µm, 0.1µm, 0.01µm
Data output	USB, RS232
Power supply	AC 85~264V, 150mA

- Linear gage:
 - Incremental glass scale sensor, with built-in roller bearing, high precision
 - With lifting lever, for quick measurement
- Display unit:
 - Set zero or output data through foot switch (optional)
 - Measuring direction can be changed
 - The reading can be preset
 - Can make accuracy compensation

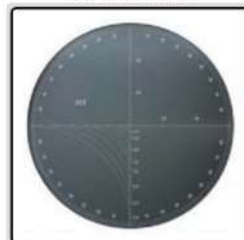
* Double channel display is optional

TOOL PRESETTER CODE ISP-TP300

projection screen Ø120mm with scale (protractor with 1° graduation, radius with 0.2, 0.4, 0.8, 1.2, 1.5, 2, 2.5, 3mm)



- Projection screen
- Measure radius, angle, height and squareness
- 99 presetting data can be saved and selected quickly



SPECIFICATION

Maximum tool diameter (X axis)	Ø300mm	
Height measuring range (Z axis)	45~450mm	
Accuracy	X axis	±6µm
	Z axis	±13µm
Resolution	0.5µm	
Diameter of projection screen	Ø120mm	
Lens	magnification	20X
	view filed	Ø6mm
Illumination	24V/20W halogen lamp	
Spindle holder	BT50	
Air source pressure	0.6Mpa	
Dimension (L×W×H)	690×620×922mm	
Weight	160kg	

STANDARD DELIVERY

Main unit	1pc
BT50 spindle holder	1pc
Standard rod	1pc
Foot-switch	1pc
Anti-dust cover	1pc



BT50/BT40 converter (optional)



BT50/BT30 converter (optional)



standard rod (included)

OPTIONAL ACCESSORY

BT50/BT30 converter	ISP-TP300-C1
BT50/BT40 converter	ISP-TP300-C2