



FOR SCREEN MASK



TENSION GAUGE 80 SERIES

MODEL STG-80NE/80D

STG-80NE has scale of 7 to 70 N/cm for reference.

High performance with minimum detection of 0.01mm. Suitable for a large range of measurements as well as chip size to large-sized screen mask. It can detect a subtle difference of tension.

◀◀ **Digital type can be imported data to PC.** ▶▶

STG-80NE

Analogue type

Displays both Metric and Newton scales



■ Features:

meets your demand for a handy measuring scale with high accuracy. Use for small-sized screen mask for electronic parts, to screen printing mask. With its large measuring range (0.01~3.0), you can easily use it without having to worry about the size of the screen frame.

◀ Handy dial gauge

The NA is portable and lightweight, you can use it anytime, anywhere. Now conveniently displays both Metric and Newton scales that saves you having to do a conversion.

Realization of systematization of data control ▶

Just by pressing the data switch with the input tool (USB keyboard signal conversion type) connected to the personal computer, the measured value can be entered directly into the cell of the spreadsheet software such as Excel etc.

The digital display avoids any reading error by the operator. ▶

STG-80D

Digital type

(Display Metric scale only)



■ Main specification

Subject/model	STG-80NE	STG-80D
Usage	Industrial /commercial screen mask	
Display	Analogue display	Digital display
Data output	None	With output terminal
Conversion values	Available	
Minimum detection	0.01mm	0.01mm
Measurement range	0~3mm(7~70N/cm)	0~3mm
Directionality of measurement	Yes	
Length between feet	78mm	
G-force (gf)	240	
Form of measuring head	semicircle	
Power source	Unnecessary	One silver oxide battery
Weight (g)	442	450
Option		Printer DP-1VA connecting cable

■ Option for digital type:

● **PRINTER DP-1VA** When connected to a printer, it can provide a permanent record of all the tension measurements, OK/NG test results, and various data operations (e.g produce histograms).



● **INPUT TOOL (connecting cable)** Just by pressing the data switch with the input tool (USB keyboard signal conversion type) connected to the personal computer, the measured value can be entered directly into the cell of the spreadsheet software such as Excel etc.



* Specifications and design details may be subject to change.

Manufacturer :



PROTEC ENG CO., LTD.

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for more information:

Conversion table of STG series to Newton values

Revised on 2021/4/21

PROTEC made		"T" made
75NA/75M/ 75D/(mm)	80NA/80NE /80D(mm)	N/cm
0.39	0.11	
0.40	0.11	70
0.41	0.11	68
0.42	0.12	66
0.43	0.12	64
0.44	0.12	
0.45	0.12	62
0.46	0.12	60
0.47	0.13	
0.48	0.13	58
0.49	0.13	56
0.50	0.13	
0.51	0.14	54
0.52	0.14	
0.53	0.14	52
0.54	0.14	
0.55	0.14	50
0.56	0.15	
0.57	0.15	
0.58	0.15	48
0.59	0.15	
0.60	0.15	46
0.61	0.16	
0.62	0.16	
0.63	0.16	44
0.64	0.16	
0.65	0.16	
0.66	0.17	42
0.67	0.17	
0.68	0.17	
0.69	0.17	40
0.70	0.17	
0.71	0.18	
0.72	0.18	38
0.73	0.18	
0.74	0.18	
0.75	0.18	
0.76	0.19	36
0.77	0.19	
0.78	0.19	
0.79	0.19	
0.80	0.19	
0.81	0.20	34
0.82	0.20	
0.83	0.20	
0.84	0.20	
0.85	0.21	
0.86	0.21	32
0.87	0.21	
0.88	0.21	
0.89	0.21	
0.90	0.22	
0.91	0.22	30
0.92	0.22	
0.93	0.22	
0.94	0.22	
0.95	0.23	
0.96	0.23	
0.97	0.23	28
0.98	0.23	
0.99	0.23	
1.00	0.24	
1.01	0.24	
1.02	0.24	
1.03	0.24	
1.04	0.24	
1.05	0.25	26
1.06	0.25	
1.07	0.25	
1.08	0.25	
1.09	0.25	

PROTEC made		"T" made
75NA/75M/ 75D/(mm)	80NA/80NE /80D(mm)	N/cm
1.10	0.26	
1.11	0.26	
1.12	0.26	
1.13	0.26	24
1.14	0.26	
1.15	0.27	
1.16	0.27	
1.17	0.27	
1.18	0.27	
1.19	0.28	
1.20	0.28	
1.21	0.28	
1.22	0.28	
1.23	0.28	22
1.24	0.29	
1.25	0.29	
1.26	0.29	
1.27	0.29	
1.28	0.29	
1.29	0.30	
1.30	0.30	
1.31	0.30	
1.32	0.30	
1.33	0.30	
1.34	0.31	20
1.35	0.31	
1.36	0.31	
1.37	0.31	
1.38	0.31	
1.39	0.32	
1.40	0.32	
1.41	0.32	19
1.42	0.32	
1.43	0.32	
1.44	0.33	
1.45	0.33	
1.46	0.33	
1.47	0.33	
1.48	0.33	18
1.49	0.34	
1.50	0.34	
1.51	0.34	
1.52	0.34	
1.53	0.35	
1.54	0.35	
1.55	0.35	
1.56	0.35	17
1.57	0.35	
1.58	0.36	
1.59	0.36	
1.60	0.36	
1.61	0.36	
1.62	0.36	
1.63	0.37	
1.64	0.37	
1.65	0.37	16
1.66	0.37	
1.67	0.37	
1.68	0.38	
1.69	0.38	
1.70	0.38	
1.71	0.38	
1.72	0.38	
1.73	0.39	
1.74	0.39	
1.75	0.39	15
1.76	0.39	
1.77	0.39	
1.78	0.40	
1.79	0.40	
1.80	0.40	

PROTEC made		"T" made
75NA/75M/ 75D/(mm)	80NA/80NE /80D(mm)	N/cm
1.81	0.40	
1.82	0.40	
1.83	0.41	
1.84	0.41	
1.85	0.41	14
1.86	0.41	
1.87	0.42	
1.88	0.42	
1.89	0.42	
1.90	0.42	
1.91	0.42	
1.92	0.43	
1.93	0.43	
1.94	0.43	
1.95	0.43	
1.96	0.43	
1.97	0.44	
1.98	0.44	13
1.99	0.44	
2.00	0.44	
2.01	0.44	
2.02	0.45	
2.03	0.45	
2.04	0.45	
2.05	0.45	
2.06	0.45	
2.07	0.46	
2.08	0.46	
2.09	0.46	
2.10	0.46	
2.11	0.46	
2.12	0.47	12
2.13	0.47	
2.14	0.47	
2.15	0.47	
2.16	0.47	
2.17	0.48	
2.18	0.48	
2.19	0.48	
2.20	0.48	
2.21	0.49	
2.22	0.49	
2.23	0.49	
2.24	0.49	
2.25	0.49	
2.26	0.50	
2.27	0.50	11
2.28	0.50	
2.29	0.50	
2.30	0.50	
2.31	0.51	
2.32	0.51	
2.33	0.51	
2.34	0.51	
2.35	0.51	
2.36	0.52	
2.37	0.52	
2.38	0.52	
2.39	0.52	
2.40	0.52	
2.41	0.53	
2.42	0.53	
2.43	0.53	
2.44	0.53	
2.45	0.53	10
2.46	0.54	
2.47	0.54	
2.48	0.54	
2.49	0.54	
2.50	0.55	

PROTEC made		"T" made
75NA/75M/ 75D/(mm)	80NA/80NE /80D(mm)	N/cm
2.51	0.55	
2.52	0.55	
2.53	0.55	
2.54	0.55	
2.55	0.56	
2.56	0.56	
2.57	0.56	
2.58	0.56	
2.59	0.56	
2.60	0.57	
2.61	0.57	
2.62	0.57	
2.63	0.57	
2.64	0.57	
2.65	0.58	
2.66	0.58	9
2.67	0.58	
2.68	0.58	
2.69	0.58	
2.70	0.59	
2.71	0.59	
2.72	0.59	
2.73	0.59	
2.74	0.59	
2.75	0.60	
2.76	0.60	
2.77	0.60	
2.78	0.60	
2.79	0.60	
2.80	0.61	
2.81	0.61	
2.82	0.61	
2.83	0.61	
2.84	0.62	
2.85	0.62	
2.86	0.62	
2.87	0.62	
2.88	0.62	
2.89	0.63	
2.90	0.63	8
2.91	0.63	
2.92	0.63	
2.93	0.63	
2.94	0.64	
2.95	0.64	
2.96	0.64	
2.97	0.64	
2.98	0.64	
2.99	0.65	
3.00	0.65	
3.01	0.65	
3.02	0.65	
3.03	0.65	
3.04	0.66	
3.05	0.66	
3.06	0.66	
3.07	0.66	
3.08	0.66	
3.09	0.67	
3.10	0.67	
3.11	0.67	
3.12	0.67	
3.13	0.67	
3.14	0.68	
3.15	0.68	
3.16	0.68	
3.17	0.68	
3.18	0.69	
3.19	0.69	
3.20	0.69	7

*This table is based on experimental values and a rough standard for conversion purpose.
 *This table does not guarantee precision of tension gauge.