



FOR SCREEN MASK

PROTEC ENGINEERING

TENSION GAUGE 75 SERIES

MODEL STG-75M/75D

High performance with minimum detection of 0.01mm. Best for large and demanding screen measurements. The swift and accurate measurement meets strict cutting-edge requirements.

«**Digital type can be imported data to PC.**»

STG-75M Analogue type

(Display Metric scale only)



■ Features:

Our original design and still the best. The most trusted tension gauge in the screen printing industry. Its long-established success is proof of reliability, accuracy and good design.

STG-75D Digital type

(Display Metric scale only)



◀ Large range of measurement scale ▶

With large measuring range (0.01~10mm), it is so versatile and especially useful for measuring high-tension, larger-sized material e.g. Tetoron and stainless mesh.

◀ Reliable measurement result

Precision engineered and with a high performance dial gauge, it produces highly accurate results.

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.

■ Main specification

Subject/model	STG-75M	STG-75D
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
Directionality of measurement	Yes	
Length between feet	90mm	
G-force (gf)	1,080	
Form of measuring head	semicircle	
Power source	Unnecessary	One silver oxide battery
Weight (g)	1,272	1,280
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**

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 :

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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.

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