



FOR SCREEN MASK

PROTEC®

TENSION GAUGE 80 SERIES

MODEL STG-80NA/80D

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.

STG-80NA 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.

STG-80D Digital type

(Display Metric scale only)



◀ 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.

▶ Data control system achieved

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).

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

■ Main specification

Subject/model	STG-80NA	STG-80D
Usage	For electronic parts and textile 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	78mm	
G-force (gf)	240	
Form of measuring head	semicircle	
Power source	Unnecessary	One silver oxide battery
Weight (g)	442	450
Option		Printer DP-1VR connecting cable

■ Option for digital type: Printer /DP-1VR



* Specifications and design details may be subject to change. C-No. E130515M

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Conversion table of STG-NA series to Newton values

Revised on 2013/12/24

PROTEC made		"T" made	PROTEC made		"T" made	PROTEC made		"T" made	PROTEC made		"T" made
75NA 75M 75D (mm)	80NA 80D (mm)	(N/cm)	75NA 75M 75D (mm)	80NA 80D (mm)	(N/cm)	75NA 75M 75D (mm)	80NA 80D (mm)	(N/cm)	75NA 75M 75D (mm)	80NA 80D (mm)	(N/cm)
0.41	0.11		1.05	0.25	26	1.69	0.38		2.31	0.51	
0.42	0.12		1.06	0.25		1.70	0.38		2.32	0.51	
0.43	0.12		1.07	0.25		1.71	0.38		2.33	0.51	
0.44	0.12		1.08	0.25		1.72	0.38		2.34	0.51	
0.45	0.12		1.09	0.26		1.73	0.39		2.35	0.51	
0.46	0.13		1.10	0.26		1.74	0.39		2.36	0.52	
0.47	0.13		1.11	0.26		1.75	0.39	15	2.37	0.52	
0.48	0.13		1.12	0.26		1.76	0.39		2.38	0.52	
0.49	0.13		1.13	0.26	24	1.77	0.40		2.39	0.52	
0.50	0.13		1.14	0.27		1.78	0.40		2.40	0.52	
0.51	0.14		1.15	0.27		1.79	0.40		2.41	0.53	
0.52	0.14		1.16	0.27		1.80	0.40		2.42	0.53	
0.53	0.14		1.17	0.27		1.81	0.40		2.43	0.53	
0.54	0.14		1.18	0.27		1.82	0.41		2.44	0.53	
0.55	0.14	50	1.19	0.28		1.83	0.41		2.45	0.54	10
0.56	0.15		1.20	0.28		1.84	0.41		2.46	0.54	
0.57	0.15		1.21	0.28		1.85	0.41	14	2.47	0.54	
0.58	0.15	48	1.22	0.28		1.86	0.41		2.48	0.54	
0.59	0.15		1.23	0.28	22	1.87	0.42		2.49	0.54	
0.60	0.15	46	1.24	0.29		1.88	0.42		2.50	0.55	
0.61	0.16		1.25	0.29		1.89	0.42		2.51	0.55	
0.62	0.16		1.26	0.29		1.90	0.42		2.52	0.55	
0.63	0.16	44	1.27	0.29		1.91	0.42		2.53	0.55	
0.64	0.16		1.28	0.29		1.92	0.43		2.54	0.55	
0.65	0.16		1.29	0.30		1.93	0.43		2.55	0.56	
0.66	0.17	42	1.30	0.30		1.94	0.43		2.56	0.56	
0.67	0.17		1.31	0.30		1.95	0.43		2.57	0.56	
0.68	0.17		1.32	0.30		1.96	0.43		2.58	0.56	
0.69	0.17	40	1.33	0.30		1.97	0.44		2.59	0.56	
0.70	0.17		1.34	0.31	20	1.98	0.44	13	2.60	0.57	
0.71	0.18		1.35	0.31		1.99	0.44		2.61	0.57	
0.72	0.18	38	1.36	0.31		2.00	0.44		2.62	0.57	
0.73	0.18		1.37	0.31		2.01	0.44		2.63	0.57	
0.74	0.18		1.38	0.31		2.02	0.45		2.64	0.57	
0.75	0.18		1.39	0.32		2.03	0.45		2.65	0.58	
0.76	0.19	36	1.40	0.32		2.04	0.45		2.66	0.58	9
0.77	0.19		1.41	0.32	19	2.05	0.45		2.67	0.58	
0.78	0.19		1.42	0.32		2.06	0.45		2.68	0.58	
0.79	0.19		1.43	0.33		2.07	0.46		2.69	0.58	
0.80	0.20		1.44	0.33		2.08	0.46		2.70	0.59	
0.81	0.20	34	1.45	0.33		2.09	0.46		2.71	0.59	
0.82	0.20		1.46	0.33		2.10	0.46		2.72	0.59	
0.83	0.20		1.47	0.33		2.11	0.47		2.73	0.59	
0.84	0.20		1.48	0.34	18	2.12	0.47	12	2.74	0.59	
0.85	0.21		1.49	0.34		2.13	0.47		2.75	0.60	
0.86	0.21	32	1.50	0.34		2.14	0.47		2.76	0.60	
0.87	0.21		1.51	0.34		2.15	0.47		2.77	0.60	
0.88	0.21		1.52	0.34		2.16	0.48		2.78	0.60	
0.89	0.21		1.53	0.35		2.17	0.48		2.79	0.61	
0.90	0.22		1.54	0.35		2.18	0.48		2.80	0.61	
0.91	0.22	30	1.55	0.35		2.19	0.48		2.81	0.61	
0.92	0.22		1.56	0.35	17	2.20	0.48		2.82	0.61	
0.93	0.22		1.57	0.35		2.21	0.49		2.83	0.61	
0.94	0.22		1.58	0.36		2.22	0.49		2.84	0.62	
0.95	0.23		1.59	0.36		2.23	0.49		2.85	0.62	
0.96	0.23		1.60	0.36		2.24	0.49		2.86	0.62	
0.97	0.23	28	1.61	0.36		2.25	0.49		2.87	0.62	
0.98	0.23		1.62	0.36		2.26	0.50		2.88	0.62	
0.99	0.23		1.63	0.37		2.27	0.50	11	2.89	0.63	
1.00	0.24		1.64	0.37		2.28	0.50		2.90	0.63	8
1.01	0.24		1.65	0.37	16	2.29	0.50		2.91	0.63	
1.02	0.24		1.66	0.37		2.30	0.50		2.92	0.63	
1.03	0.24		1.67	0.37							
1.04	0.24		1.68	0.38							

*This table is based on experimental values and a rough standard for conversion purpose.

*This table does not guarantee precision of tension gauge.