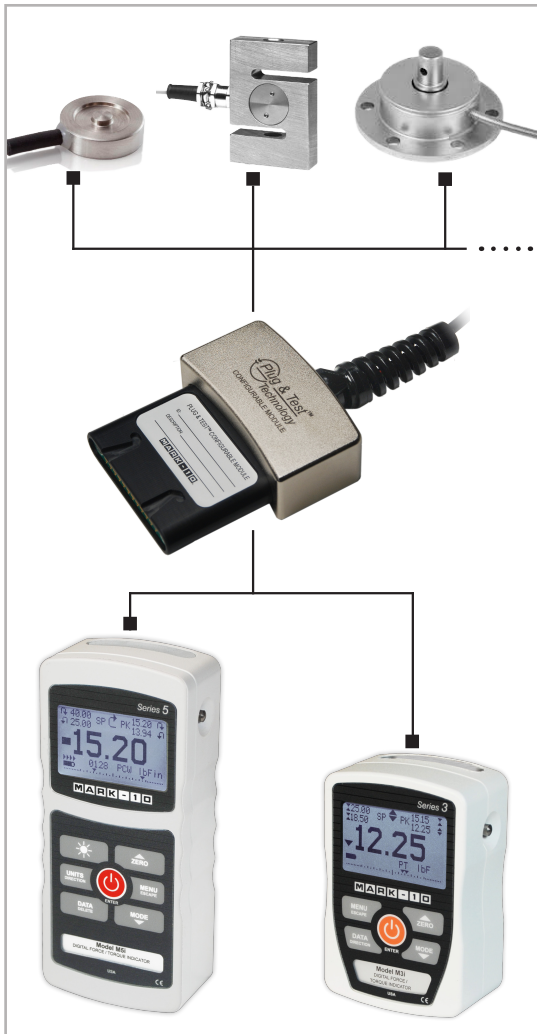


Plug & Test™ Adapter Model PTA



Connect common strain gage-based load cells, force sensors, and torque sensors to our Models 5i and 3i indicators with this user-configurable adapter and software.

Sensor capacity and resolutions may be programmed via an included software utility, which includes a library of common force capacities from 0.12 to 750,000 lbf (0.5 N to 4,000 kN), and torque capacities from 10 ozFin to 40,000 lbFft (7 Ncm to 57,000 Nm). An identification number may be programmed, which is displayed upon indicator power-up or the indicator's Information screen.

Through Plug & Test™ technology, all configuration and calibration information is saved within the adapter. This flexibility allows for interchangeability between multiple sensors with both the 5i and 3i indicators.

Features

- Compatible with strain gage-based load cells, force sensors, and torque sensors
- Screw terminal block allows for easy connection of sensor wires
- Software configuration utility is included, for easy programming of sensor capacity, resolution, and identification number
- Program the adapter via USB or RS-232 through the indicator
- Supplied with a strain relief, user-writeable identification label, and Resource CD with software

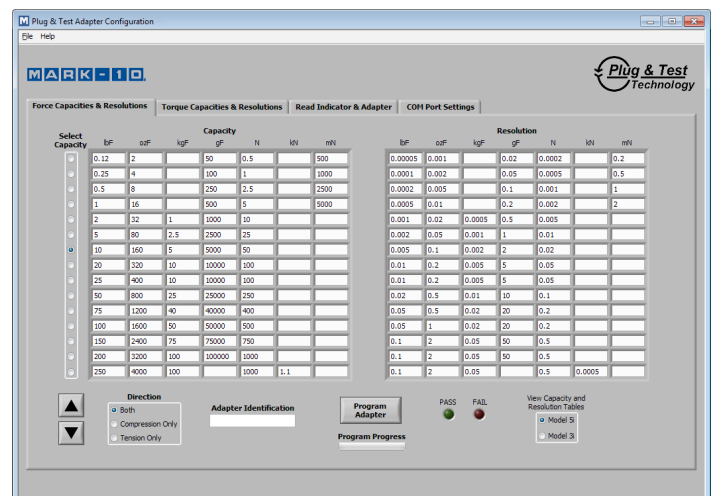
Requirements

- Sensor type: Full bridge
- Sensor resistance: 300 - 1000 ohms
- Sensor sensitivity: 1 - 3 mV/V full scale
- 5i or 3i indicator with firmware version 1.0.9 or later*



^ Cover is removed to expose the PCB with labelled wire connections and screw terminal block.

* The PTA adapter *cannot be configured* using older indicator versions. The PTA adapter *can be used* with older indicator versions, however, the adapter *cannot be calibrated* for single-direction load cells, such as load button and thru hole type load cells.



^ Software utility features a library of force and torque capacities. Programming of capacity, resolution, and identification number is done via USB through the 5i or 3i indicator.

Force Capacities & Resolutions

Capacity							Resolution With Model 5i indicator							Resolution With Model 3i indicator				
lbF	ozF	kgF	gF	N	kN	mN	lbF	ozF	kgF	gF	N	kN	mN	lbF	kgF	gF	N	kN
0.12	2	-	50	0.5	-	500	0.00005	0.001	-	0.02	0.0002	-	0.2	0.0001	-	0.05	0.0005	-
0.25	4	-	100	1	-	1000	0.0001	0.002	-	0.05	0.0005	-	0.5	0.0002	-	0.1	0.001	-
0.5	8	-	250	2.5	-	2500	0.0002	0.005	-	0.1	0.001	-	1	0.0005	-	0.2	0.002	-
1	16	-	500	5	-	5000	0.0005	0.01	-	0.2	0.002	-	2	0.001	-	0.5	0.005	-
2	32	1	1000	10	-	-	0.001	0.02	0.0005	0.5	0.005	-	-	0.002	0.001	-	0.01	-
5	80	2.5	2500	25	-	-	0.002	0.05	0.001	1	0.01	-	-	0.005	0.002	-	0.02	-
10	160	5	5000	50	-	-	0.005	0.1	0.002	2	0.02	-	-	0.01	0.005	-	0.05	-
20	320	10	10000	100	-	-	0.01	0.2	0.005	5	0.05	-	-	0.02	0.01	-	0.1	-
25	400	10	10000	100	-	-	0.01	0.2	0.005	5	0.05	-	-	0.02	0.01	-	0.1	-
50	800	25	25000	250	-	-	0.02	0.5	0.01	10	0.1	-	-	0.05	0.02	-	0.2	-
75	1200	40	40000	400	-	-	0.05	0.5	0.02	20	0.2	-	-	0.1	0.05	-	0.5	-
100	1600	50	50000	500	-	-	0.05	1	0.02	20	0.2	-	-	0.1	0.05	-	0.5	-
150	2400	75	75000	750	-	-	0.1	2	0.05	50	0.5	-	-	0.2	0.1	-	1	-
200	3200	100	100000	1000	-	-	0.1	2	0.05	50	0.5	-	-	0.2	0.2	-	2	-
250	4000	100	-	1000	1.1	-	0.1	2	0.05	-	0.5	0.0005	-	0.2	0.2	-	2	-
300	4800	150	-	1500	1.5	-	0.2	5	0.1	-	1	0.001	-	0.5	0.2	-	2	-
500	8000	250	-	2500	2.5	-	0.2	5	0.1	-	1	0.001	-	0.5	0.2	-	2	-
750	12000	400	-	4000	4	-	0.5	10	0.2	-	2	0.002	-	1	0.5	-	5	-
1000	16000	500	-	5000	5	-	0.5	10	0.2	-	2	0.002	-	1	0.5	-	5	-
1500	24000	750	-	7500	7.5	-	1	20	0.5	-	5	0.005	-	2	1	-	10	-
2000	32000	1000	-	10000	10	-	1	20	0.5	-	5	0.005	-	2	1	-	10	-
2500	-	1000	-	10000	10	-	1	-	0.5	-	5	0.005	-	2	1	-	10	-
3000	-	1500	-	15000	15	-	2	-	1	-	10	0.01	-	5	2	-	20	-
5000	-	2500	-	25000	25	-	2	-	1	-	10	0.01	-	5	2	-	20	-
7500	-	4000	-	40000	40	-	5	-	2	-	20	0.02	-	10	5	-	50	-
10000	-	5000	-	50000	50	-	5	-	2	-	20	0.02	-	10	5	-	50	-
15000	-	7500	-	75000	75	-	10	-	5	-	50	0.05	-	20	10	-	100	-
20000	-	10000	-	100000	100	-	10	-	5	-	50	0.05	-	20	10	-	100	-
25000	-	10000	-	100000	100	-	10	-	5	-	50	0.05	-	20	10	-	100	-
30000	-	15000	-	150000	150	-	20	-	10	-	100	0.1	-	50	20	-	200	-
50000	-	25000	-	250000	250	-	20	-	10	-	100	0.1	-	50	20	-	200	-
75000	-	40000	-	400000	400	-	50	-	20	-	200	0.2	-	100	50	-	500	-
100000	-	50000	-	500000	500	-	50	-	20	-	200	0.2	-	100	50	-	500	-
150000	-	75000	-	750000	750	-	100	-	50	-	500	0.5	-	200	100	-	1000	-
200000	-	100000	-	-	1000	-	100	-	50	-	-	0.5	-	200	100	-	-	1
250000	-	100000	-	-	1000	-	100	-	50	-	-	0.5	-	200	100	-	-	1
300000	-	150000	-	-	1500	-	200	-	100	-	-	1	-	500	200	-	-	2
500000	-	250000	-	-	2500	-	200	-	100	-	-	1	-	500	200	-	-	2
750000	-	400000	-	-	4000	-	500	-	200	-	-	2	-	1000	500	-	-	5

Torque Capacities & Resolutions

Capacity									Resolution With Model 5i indicator									Resolution With Model 3i indicator					
lbFin	ozFin	lbFft	Ncm	Nm	Nmm	kgFmm	gFcm	kgFm	lbFin	ozFin	lbFft	Ncm	Nm	Nmm	kgFmm	gFcm	kgFm	lbFin	ozFin	Ncm	Nm	kgFmm	kgFm
-	10	-	7	-	70	7	700	-	-	0.005	-	0.005	-	0.05	0.005	0.5	-	-	0.01	0.01	-	0.01	-
-	20	-	14	-	140	14	1400	-	-	0.01	-	0.01	-	0.1	0.01	1	-	-	0.02	0.02	-	0.02	-
-	50	-	35	-	350	35	3500	-	-	0.02	-	0.02	-	0.2	0.02	2	-	-	0.05	0.05	-	0.05	-
-	100	-	70	-	700	70	7000	-	-	0.05	-	0.05	-	0.5	0.05	5	-	-	0.1	0.1	-	0.1	-
-	1000	-	700	-	7000	700	70000	-	-	0.5	-	0.5	-	5	0.5	50	-	-	1	1	-	1	-
12	192	1	135	1.35	-	-	-	-	0.005	0.1	0.0005	0.1	0.001	-	-	-	-	0.01	0.2	0.1	-	-	-
20	320	1.5	220	2.2	-	-	-	-	0.01	0.2	0.001	0.1	0.001	-	-	-	-	0.02	0.5	0.2	-	-	-
25	400	2	290	2.9	-	-	-	-	0.02	0.2	0.002	0.2	0.002	-	-	-	-	0.02	0.5	0.2	-	-	-
50	800	4	570	5.7	-	-	-	-	0.02	0.5	0.002	0.5	0.005	-	-	-	-	0.05	1	0.5	-	-	-
100	1600	8	1150	11.5	-	-	-	-	0.05	1	0.005	0.5	0.005	-	-	-	-	0.1	2	1	-	-	-
150	-	12.5	1700	17	-	1700	-	-	0.1	-	0.01	1	0.01	-	1	-	-	0.2	-	2	-	2	-
200	-	16	2200	22	-	2200	-	-	0.1	-	0.01	1	0.01	-	1	-	-	0.2	-	2	-	2	-
250	-	20	2800	28	-	2800	-	-	0.2	-	0.02	2	0.02	-	2	-	-	0.2	-	2	-	2	-
400	-	32	4500	45	-	4500	-	-	0.2	-	0.02	2	0.02	-	2	-	-	0.5	-	5	-	5	-
500	-	40	5800	57	-	5800	-	-	0.2	-	0.02	2	0.02	-	2	-	-	0.5	-	5	-	5	-
600	-	50	6900	69	-	6900	-	-	0.5	-	0.05	5	0.05	-	5	-	-	1	-	10	-	10	-
1000	-	80	11500	115	-	11500	-	-	0.5	-	0.05	5	0.05	-	5	-	-	1	-	10	-	10	-
1500	-	125	17000	170	-	17000	-	-	1	-	0.1	10	0.1	-	10	-	-	2	-	20	-	20	-
2000	-	150	22000	220	-	22000	-	-	1	-	0.1	10	0.1	-	10	-	-	2	-	20	-	20	-
2500	-	200	29000	290	-	29000	-	-	1	-	0.1	20	0.2	-	20	-	-	2	-	20	-	20	-
5000	-	400	57000	570	-	58000	-	-	2	-	0.2	20	0.2	-	50	-	-	5	-	50	-	100	-
6000	-	500	69000	690	-	69000	-	-	5	-	0.5	50	0.5	-	50	-	-	5	-	50	-	100	-
10000	-	800	115000	1150	-	-	-	115	5	-	0.5	50	0.5	-	-	-	0.05	10	-	100	-	-	0.1
15000	-	1250	170000	1700	-	-	-	170	10	-	1	100	1	-	-	-	0.1	20	-	200	-	-	0.2
20000	-	2000	220000	2200	-	-	-	220	10	-	1	100	1	-	-	-	0.1	20	-	200	-	-	0.2
50000	-	4000	570000	5700	-	-	-	580	20	-	2	200	2	-	-	-	0.5	50	-	500	-	-	1
100000	-	8000	-	11500	-	-	-	1150	50	-	5	-	5	-	-	-	0.5	100	-	-	10	-	1
150000	-	12500	-	17000	-	-	-	1700	100	-	10	-	10	-	-	-	1	200	-	-	20	-	2
200000	-	15000	-	22000	-	-	-	2200	100	-	10	-	10	-	-	-	1	200	-	-	20	-	2
500000	-	40000	-	57000	-	-	-	5800	200	-	20	-	20	-	-	-	5	400	-	-	50	-	10