



∠1Г.... DM-9030

AUTOMOTIVE TESTER

Model: DM-9030

- 1. FEATURES

 * Modif function measurement DCV, ACV, DCA, ACA, ORMS, TEMPERATURE, He, RPM, DWELL ANGLE, DIODE, CONTINUITY BEEFER, PRPM, CADE, The Management by Monkette pickup for more convenent & accurate readings of both conventional and datablotonies inguinout.

 * RPM (TACFI) used the "Secondary Tach" measuring method, no matter what cylander to all the production of the production of the convenience of the production of the convenience of the production of the convenience of the production of the production

2. SPECIFICATIONS

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2-1 General Specific	cations					
Display	18 mm (0.7*) LCD,					
	3 1/2 digits, Max. indication 999.					
Measurement	36 ranges covering : DCV, ACV, DCA,					
	ACA, OHMS, TEMPERATURE, Hz, RPM,					
	DWELL ANGLE, DIODE, CONTINUITY					
	BEEPER.					
Polarity	Automatic Switching , "-" indicates					
	negative polarity.					
Zero Adjustment	Automatic					
Over-input	Display shows "1" or "-1".					
Sampling time	Approx. 0.4 second.					
Operating Temp.	0°C to 50°C (32°F to 122°F)					
Operating	Less than 80% RH					
Humidity						
Power	Approx. DC 3.6 mA.					
Consumption						
Dimension	185 x 87 x 39 mm(7.3 x 3.4 x 1.5 inch)					
Weight	322 g/0.71 LB (including battery).					
Standard	Red and Black Test leads	1 pair				
Accessories	Instruction Manual	1 PC				
Optional	RPM inductive pick up sensor (IP-07)					
Accessories	Temperature probe, carrying case					

	TAG	ĸ					
RANGE		ACCURACY	RES	OLUI		INPUT	OVERLOAD
			-		_	IMPEDANCE	PROTECTION
200-17		±(0.5%+1d)	100uV				500V DC, 350V AC,
200mV		±(0.3%+10)	100uV				15 sec.
							15 200
***			1.17		_		DC 600 V
2V 20V		±(0.8%+1d)	1mV 10mV 100mV		-	10M ohm	AC 600 V
200V		2(0.070110)					AC 000 V
600V							
AC		* FREQUEN	CY	ESP	NSE	: 40Hz-500Hz	, SENE WAVE
YOLTA	GE	SPEC. TEST	RESOLUTION		Иz		
RANGE		ACCURACY				INPUT IMPEDANCE	OVERLOAD PROTECTION
			_			IMPEDANCE	500V DC,
200mV			100uV			350V AC,	
							15 sec
		1.					
2V		±(1%+2d)	1r	nV		10M ohm	DC 600 V
(0.01V-2	(V)	-	10mV 100mV 1V		-		AC 600 V
20V 200V		1			-		
600V		1			-		
AC/DC	0000	* FREQUEN			NSE	: 40Hz-500Hz	SINE WAVE
CURRE	NT	SPEC. TEST	ED ON 68H2/58		Ht		
RANGE		ACCURACY	RESOLUTION			VOLTAGE	OVERLOAD
						DROP	PROTECTION
10A		DCA: ±(1.5%+2d)	1,0	lm A		ACA: AC200mV	(UN FUSED)
IVA		ACA:	1	nulH.		ACZOOMV DCA:	(OTALOSED)
		±(1.5%+3d)				DC200mV	
	_		\perp				
	ANC	E			WIN.		
RANGE		ACCURACY	RES	OLUT		OPEN CKT.	OVERLOAD
200 ohm		±(1%+3d)		1 ohm	_	VOLTAGE 3 V Max	PROTECTION AC 500V
2K		22(170134)	1	ohm		J V INIAL	(Protected
20K		1		ohm			by PTC)
200K		±(0.8%+1d)	100 ohm			APPROX.	1,,,,,
2000K			1 E	ζohm		0.3 V Max.	
20M		±(2%+2d)	10K ohm				
				ar our	1		
NOTES T							
		RANGE				ACCUR ACV	OVERLOAD
CYLINI		RANGE				ACCURACY	OVERLOAD
3 CYL		RANGE 0 - 120				ACCURACY	OVERLOAD PROTECTION 200V DC/AC
CYLINE 3 CYL 4 CYL		RANGE 0 - 120 0 - 90	RES	OLUI			OVERLOAD PROTECTION 200V DC/AC RMS
3 CYL 3 CYL 4 CYL 5 CYL		0 - 120 0 - 90 0 - 72		OLUI		ACCURACY ±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC
3 CYL 4 CYL 5 CYL 6 CYL		0 - 120 0 - 90 0 - 72 0 - 60	RES	OLUI			OVERLOAD PROTECTION 200V DC/AC RMS
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL	ER	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45	RES 0.	OLUT			OVERLOAD PROTECTION 200V DC/AC RMS
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C	YCL	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100.0 %	0.	OLUT	ION	±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C	YCL	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45	RES 0.	OLUT	ION ION		OVERLOAD PROTECTION 200V DC/AC RMS
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C	YCL	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100.0 %	RES 0.	OLUT	ION ION	±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C TACH RANGE	YCLI	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100.0% econdary tach.	0 0 ms RES	OLUT	ION ION	±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C	YCLI	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100.0% econdary tach.	0 0 ms RES	OLUT	ION ION	±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C TACH RANGE	YCLI	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100.0% econdary tach.	0 0 ms RES	OLUT	ION ION	±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C TACH RANGE	YCLI	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100.0% econdary tach.	0 0 ms RES	OLUT	ION ION	±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C TACH RANGE	YCLI	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100.0% econdary tach.	0 0 ms RES	OLUT	ION ION	±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL BUTY C TACH RANGE	YYCLI (\$	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100 96 exondery tach.	0. 0 no ma	OLUT 1 1% title w OLUT	I NOI	±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS
3 CYL 4 CYL 5 CYL 5 CYL 8 CYL 8 CYL DUTY C TACH RANGE 500 - 10	PER PYCLI (\$	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100 % eson day tach	RES 0. 0 no ma RES	OLUT 1 1% title w OLUT	I NOI	±(1.2%+1d) 1.00 is) ACCURACY ±(1.2%+1d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.)
3 CYL 4 CYL 5 CYL 6 CYL B CYL TACH RANGE 500 - 10	PER PYCLI (\$	RANGE 0 - 120 0 - 90 0 - 72 0 - 60 0 - 45 0 - 100 % eson day tach	0. 0 no ma	OLUT	I NOI	±(1.2%+1d) L no is) ACCURACY ±(1.2%+1d) ACCURACY	OVERLOAD PROTECTION 2007 DC/AC RAMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RAMS (within 1 min.)
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL DUTY C TACH 500 - 10 TEMPE RANGE -20°C to	PER (\$ (\$ 0.000)	RANGE 0 - 120 0 - 90 0 - 90 0 - 72 0 - 60 0 - 40 0 - 40 0 - 100 0 % econday tach	RES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OLUT 1 1 1 1 WOLUT ORPA	I NOI	±(1.2%+1d) L no is) ACCURACY ±(1.2%+1d) ACCURACY	OVERLOAD PROTECTION 2007 DC/AC RAMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RAMS (within 1 min.)
3 CYL 4 CYL 5 CYL 5 CYL 8 CYL 8 CYL DUTY C TACH RANGE 500 - 10	PER (\$ (\$ 0.000)	RANGE 0 - 120 0 - 90 0 - 90 0 - 72 0 - 60 0 - 40 0 - 40 0 - 100 0 % econday tach	RES 0. 0 no ma RES	OLUT 1 1 1 1 WOLUT ORPA	I NOI	±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ACCURACY ±(1.2%+1d) ±(1.2%+1d)	OVERLOAD PROTECTION 200V DCIAC RMS (within 15 sec) OVERLOAD PROTECTION 24V DCIAC RMS (within 1 min.) Y 0 to 300 °C Over 300 °C 0 to 550 °F
3 CYL 4 CYL 5 CYL 5 CYL 6 CYL BUTY C TACH TRANGE 500 - 10 TEMPE RANGE -20°C to	PER (\$ (\$ 1,000) 1400	RANGE 0 - 120 0 - 190 0 - 90 0 - 72 0 - 60 0 - 72 0 - 60 0 - 100 0 % ector-feat tach ,	RES 0. 0 no maximum RES 1	OLUT 1 1% 19% 100 RPM OLUT C	I NOI	±(1.2%+1d) L no is) ACCURACY ±(1.2%+1d) ACCURACY	OVERLOAD PROTECTION 200V DCIAC RMS (within 15 sec) OVERLOAD PROTECTION 24V DCIAC RMS (within 1 min.) Y 0 to 300 °C Over 300 °C 0 to 550 °F
3 CYL 4 CYL 5 CYL 5 CYL 6 CYL BUTY C TACH RANGE 500 - 10 TEMPE RANGE -20 °C to FREQUE	750 T 1400	RANGE 0 - 120 0 - 90 0 - 90 0 - 72 0 - 60 0 - 72 0 - 60 0 - 100 0 % eton-fasy tach , RPM URE C 'F 'F 4 (Hz) ASURING	RES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OLUT 1 1% 19% 100 RPM OLUT C	ION ION	±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ACCURACY ±(1.2%+1d) ±(1.2%+1d)	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.) Y 0 to 300 °C Cover 300 °C Cover 500 °F [INPUT SIN-
3 CYL 4 CYL 5 CYL 5 CYL 5 CYL 5 CYL 5 CYL C CYL TACH RANGE 500 - 10 TEMPE RANGE 0 T T T T T T T T T T T T T T T T T T T	PYCLI (S 1,000: 1400 1400 ENC: ME, RAY	RANGE 0 - 120 0 - 90 0 - 90 0 - 72 0 - 72 0 - 60 0 - 45 0 - 100 % EFPM WRE C C FF FF SURING SURING SUE SURING	RES 0. 0 no maximum RES 1	OLUT 1 196 Photos w OLUT C F	ION ION RESC	±(1.2%+1d) Leg B) ACCURACY ±(1.2%+1d) ACCURACE ±(1%+2d) ±(3%+2d) ±(3%+3d) ±(3%+3d)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.) Y 0 to 300 °C Over 300 °C Over 300 °C Over 550 °F
3 CYL 4 CYL 5 CYL 4 CYL 5 CYL 6 CYL 8 CYL 7 CYL 8 CYL 8 CYL 7 CYL 8 CYL 8 CYL 8 CYL 8 CYL 8 CYL 8 CYL 9 CYL 8 CYL	PYCLI (\$ (\$ 1400 ENC. RAT 9-15 PROPER	RANGE 0-120 0-120 0-90 0-72 0-72 0-60 0-45 0-45 0-100.94 EEGRAY bath.	RES 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	OLUTI 1 1% 19% OLUTI C F	ION II RESC	±(1.2%+1d) Lno.is) ACCURACY ±(1.2%+1d) 4(1.2%+1d) 4(1.2%+1d) ±(3.4+2d) ±(3.4+2d) ±(3.4+2d) ±(3.4+3d) DLUTION 1.Hz	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 min.) Y Y 0 to 300 °C Over 300 °C Over 300 °C Over 500 °C No 550 °F INPUT SIN- SITUYITY
3 CYL 4 CYL 5 CYL 6 CYL 5 CYL 7 CYL 8 CYL 8 CYL 7 CYL 8 CYL 8 CYL 7 CYL 8 CYL 9 CYL 8 CYL 9 CYL 8 CYL 9 CYL	750°C 1400 1,000 MEA 1,9-15	RANGE 0 - 120 0 - 90 0 - 90 0 - 72 0 - 72 0 - 60 0 - 45 0 - 100 % RPPM RPPM URR C F P F P SURING WGE 99 9 HE	RES 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	OLUT 1 196 Photos w OLUT C F	ION ION ION ION ION ION ION	±(1.2%+1d) ACCURACY ±(1.2%+1d) ACCURACY ±(1.2%+1d) ACCURAC ±(1%+2d) ±(3%+2d) ±(3%+3d) ±(3%+3d) LUTION	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.) Y 0 to 300 °C Cover 300 °C Cover 500 °F [INPUT SIN-
3 CYL 4 CYL 5 CYL 4 CYL 5 CYL 6 CYL 8 CYL 8 CYL 7 CYL 8 CYL 7 CYL 8 CYL 8 CYL 7 CYL 8 CYL 9 CYL 8 CYL 9 CYL 8 CYL 9 CYL	750 V 1400 ENC: ME, RAY 9-15 9-15 9-15 9-15 9-15	RANGE 0-120 0-120 0-90 0-72 0-72 0-60 0-72 0-60 0-45 0-45 0-1000% Especially back FPM WHE TF F (Ha) ASSURING GGE 999 Hz 999 Hz	RES 0. 0 no ma ma RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 196 196 196 197 197 197 197 198 198 198 198 198 198 198 198 198 198	ION II RESC	±(1.2%+1d) ACCURACY ±(1.2%+1d) ACCURACY ±(1.2%+1d) ACCURAC ±(1%+2d) ±(3%+2d) ±(3%+3d) ±(3%+3d) LUTION	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 min.) Y Y 0 to 300 °C Over 300 °C Over 300 °C Over 500 °C No 550 °F INPUT SIN- SITUYITY
3 CYL 4 CYL 4 CYL 5 CYL 6 CYL 6 CYL 7 CYL	750°C 1400 1400 1400 1400 1400 1400 1400 140	RANGE 0.120 0.120 0.702 0.702 0.702 0.702 0.702 0.700	RES 0 0 10 morning RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 196 196 OLUT OLUT C F	ION	±(1.2%+1d) ACCURACY ±(1.2%+1d) ACCURACY ±(1.2%+1d) ACCURAC ±(1%+2d) ±(3%+2d) ±(3%+3d) ±(3%+3d) LUTION	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 min.) Y Y 0 to 300 °C Over 300 °C Over 300 °C Over 500 °C No 550 °F INPUT SIN- SITUYITY
3 CYL 4 CYL 4 CYL 5 CYL 6 CYL 6 CYL 7 CYL 7 CYL 8 CYL	750°C 1400 1400 1400 1400 1400 1400 1400 140	RANGE 0-120 0-120 0-90 0-72 0-72 0-60 0-72 0-100.0% retorday tach , RPM RPM FF (Ha) ASURING GGE 19.99 HE 19.	RES 0. 0 no ma ma RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 196 196 OLUT C F J C 6+2d	ION RESCO	±(1,2%+1d) Lno is) ACCURACY ±(1,2%+1d) ±(1,2%+1d) ±(1,2%+1d) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(4,50,1)	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 zec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 zec) VY 0 to 300 °C Over 350 °C Over 350 °C Over 350 °F IMPUT SEN- SITIVITY 35mV PMS
3 CYL 4 CYL 4 CYL 5 CYL 6 CYL 6 CYL 7 CYL 7 CYL 8 CYL	750°C 1400 1400 1400 1400 1400 1400 1400 140	RANGE 0.120 0.120 0.702 0.72 0.72 0.72 0.60 0.45 0.1000% retorday bach J. RPM URE C C Ho J J J J J J J J J J J J J J J J J J	RES 0. 0 no ma ma RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 1 1 1 % OLUT OLUT C F J - (ION	±(1,2%+1d) Lno is) ACCURACY ±(1,2%+1d) ±(1,2%+1d) ±(1,2%+1d) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(4,50,1)	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 zec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 zec) VY 0 to 300 °C Over 350 °C Over 350 °C Over 350 °F IMPUT SEN- SITIVITY 35mV PMS
3 CYL 4 CYL 5 CYL 6 CYL 8 CYL 6 CYL 7 CYL	PYCLI (\$ 0,000 : 1400 :	RANGE 0.120 0.120 0.72 0.72 0.72 0.60 0.45 0.100 0.45 0.100 0.96 EFM EFM EFM FP EHM SURING 99 HE 1999 kH 1999 kH 1999 kH DAPTER (OP MAX DISPLACEMANTING DAPTER (OP MAX DISPLACEMANTING DAPTER (OP MAX DISPLACEMANTING DAPTER (OP) DAPTER (OP) MAX DISPLACEMANTING DAPTER (OP) MAX DISPLACEMANTING DAPTER (OP) DAPTE	RES 0. 0 no ma ma RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 196 We wo OLUT O RPM OLUT F 1 6 + 2d	ION ION ION RESC	±(1,2%+1d) Lno is) ACCURACY ±(1,2%+1d) ±(1,2%+1d) ±(1,2%+1d) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(4,50,1)	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 zec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 zec) VY 0 to 300 °C Over 350 °C Over 350 °C Over 350 °F IMPUT SEN- SITIVITY 35mV PMS
3 CYL 4 CYL 5 CYL 7 CYL 7 CYL 7 CYL 8 CYL 8 CYL 8 CYL 7 CYL 8 CYL 9 CYL	PYCLI (\$ 0,000 : 1400 :	RANGE 0.120 0.120 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.	RES 0. 0 no ma ma RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 1% ther w OLUT C F F F J- (6+2d 0.1 m	ION RESCON 1 ION O.: 11 ION O.: 12 O.: 14 O.: 15 O.: 16 O.: 17 O.: 17 O.: 18 O.: 18 O.: 19 O.: 10 O.:	±(1.2%+1d) LEO S) ACCURACY ±(1.2%+1d) ±(1.2%+1d) ACCURAC ±(1%+2d) ±(3%+2d) ±(1%+3d) ±(3%+3d) DLUTION HE E HE	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 zec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.) Y 0 x 300 °C Over 300 °C Over 300 °C Over 500 °F INPUT SEN- STITUTTY 35mV RMS
3 CYL 3 CYL 4 CYL 5 CYL 5 CYL 6 CYL 6 CYL 6 CYL 5 CYL 5 CYL 6 CYL 6 CYL 6 CYL 6 CYL 6 CYL 6 CYL 7 CYL	PYCLI (\$ 0,000 : 1400 :	RANGE 0-120 0-120 0-70 0-70 0-70 0-70 0-70 0-70 0-70 0-	RES 0. 0 no ma ma RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 196 integ w OLUT O RPh OLUT C F F F OLUT O RPh OLUT O RPh O RPh	RESCON IDON IDON IDON IDON IDON IDON IDON ID	±(1,2%+1d) Lno is) ACCURACY ±(1,2%+1d) ±(1,2%+1d) ±(1,2%+1d) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(3,50,1) ±(4,50,1)	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 zec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.) Y 0 x 300 °C Over 300 °C Over 300 °C Over 500 °F INPUT SEN- STITUTTY 35mV RMS
3 CYL 4 CYL 5 CYL 7 CYL	750°C 1400 ENC! ME. RAY 9-15 9-15 9-19-10-10-10-10-10-10-10-10-10-10-10-10-10-	RANGE 0-120 0-120 0-70 0-70 0-70 0-70 0-70 0-70 0-70 0-	RES 0. 0 no this RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 196 who wo OLUT ORPM OLUT C F F F F F 1, 1 1 m 0.1 mm 1 mV	ION RESCONDING 1 IE 10 DIGITAL W DCC DCC DCC DCC ION ION ION ION ION ION ION I	±(1.2%+1d) LEO S) ACCURACY ±(1.2%+1d) ±(1.2%+1d) ACCURAC ±(1%+2d) ±(3%+2d) ±(1%+3d) ±(3%+3d) DLUTION HE E HE	OVERLOAD PROTECTION 200V DC/AC RMS (within 15 zec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.) Y 0 x 300 °C Over 300 °C Over 300 °C Over 500 °F INPUT SEN- STITUTTY 35mV RMS
3 CYL 4 CYL 5 CYL 7 CYL	PYCLI (\$ 1,000) 1400 1400 1600 1750 1600 1750 1750 1750 1750 1750 1750 1750 17	RANGE 0-120 0-120 0-120 0-70 0-70 0-70 0-70 0-70 0-70 0-70 0-	RES 0. 0 no this RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 196 integ w OLUT O RPh OLUT C F F F OLUT O RPh OLUT O RPh O RPh	ION RESCONDING 1 IE 10 DIGITAL W DCC DCC DCC DCC ION ION ION ION ION ION ION I	±(1.2%+1d) ±(1.2%+1d) ACCURACY ±(1.2%+1d) ACCURACY ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d)	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.) Y 0 to 300 °C Over 300 °C Over 300 °C Over 550 °F INPUT SEN- STITUTTY 35mV RMS
3 CYL 4 CYL 5 CYL 5 CYL 6 CYL 6 CYL 7 CYL	RAT 750 T 1400 ENC: RAN 9-15 0.9- put v VAL 2	RANGE 0 - 120 0 - 120 0 - 120 0 - 90	RES 0 0 0 1 RES 1 1 RES 1 1 ACCI RAC' ±(19)	OLUTI 1 1% ther w OLUTI C F F F F OLUTI C 0.1 m 1 mV 0.1 V	ION	±(1.2%+1d) ±(1.2%+1d) ACCURACY ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ±(1.2%+1d) ACCURAC ±(1%+3d) ±(1%+3d) LUTION HE HE ±(1.2%+1d)	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 1 min.) Y 0 to 300 °C Over 300 °C Over 300 °C Over 550 °F INPUT SEN- STITUTTY 35mV RMS
3 CYL 4 CYL 5 CYLNI 3 CYL 4 CYL 5 CYL 6 CYL 6 CYL TACH RANGE 200 T 7 CYL 7 T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8	PYCLI (\$ (\$) 1400 1400 1400 Pycli Pycli 19-15 19-15 19-15 Pycli Pycli	RANGE 0-120 0-120 0-72 0-72 0-72 0-72 0-72 0-72 0-72 0-	RES 0 0 1 RES 1 1 RES 1 ACCI RACCI + (19) C/AC ADP Y	OLUT 1 196 ther w OLUT 0 RPM 6+2d 6+2d 1.1mV 0.1mm 0.1mV	ION	±(1.2%+1d) Leo (87) ACCURACY ±(1.2%+1d) ACCURAC ±(1%+2d) ±(3%+2d) ±(3%+2d) ±(3%+3d) LUITON HE E ACCURAC ACCURAC LUICON LUI	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 min) Y 0 to 200 °C (Over 300 °C (Over 300 °C (Over 300 °C (Over 305 °F (Over 550 °F (NPUT SEN-STITUTE) 35mV RMS
3 CYL. 3 CYL. 4 CYL. 5 CYL. 5 CYL. 5 CYL. 5 CYL. 5 CYL. 5 CYL. 6 CYL. 7	PAT SOT WAL A PT S	RANGE 0-120 0-120 0-72 0-72 0-72 0-72 0-72 0-72 0-100.0% ctenday tach , RPM RPM RPM RPM RPM RPM RPM RP	RES 0 0 0 no tass RES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLUT 1 1% ther w OLUT 0 RPM OLUT C F Inv V Then m 1 mv V Then m cessar	ION	±(1.2%+1d) Leo (87) ACCURACY ±(1.2%+1d) ACCURAC ±(1%+2d) ±(3%+2d) ±(3%+2d) ±(3%+3d) LUITON HE E ACCURAC ACCURAC LUICON LUI	OVERLOAD PROTECTION 200 V DC/AC RMS (within 15 sec) OVERLOAD PROTECTION 24V DC/AC RMS (within 15 min) Y 0 to 200 °C (Over 300 °C (Over 300 °C (Over 300 °C (Over 305 °F (Over 550 °F (NPUT SEN-STITUTE) 35mV RMS

3. OPTIONAL TEMPERATURE PROBE & OTHER ACCESSORIES

Temperature Probe	Measure Range: -40 ℃ to 250 ℃ (-40°F to 482°F)			
(Type K) TP-01	Max. short -term operating temperature : 300°C (572°F)			
	It is an ultra fast response naked-bead thermocouple			
	suitable for many general purpose application			
Temperature Probe	Measure Range: -50 °C to 900 °C (-50 °F to 1700 °F)			
(Type K) TP-02A	Dimension: 10cm tube, 3.2mm dia.			
	General purpose application.			
Temperature Probe	Measure Range: -50 °C to 500 °C (-50 °F to 932 °F)			
(Type K) TP-02B	Dimension: 10cm tube, 4.2mm dia. 10cm handle.			
Temperature Probe	Measure Range:-40 °C to 1200 °C (-40 °F to 2200 °F)			
(Type K) TP-03	Dimension: 10cm tube, 8mm dia			
Carry case, CA - 03	Dimension: 185 x 90 x 60mm (7.3 x 3.5 x 2.4 inch)			
	Weight: 70g (0.1 LB)			
Test Lead, TL - 02AS	High quality and better performance testlead with silicon			
	and the committee the afficiency of the control			