

# DIGITAL MULTIMETERS



## TBM811 / TBM811XEX GENERAL PURPOSE DMM

- Splash/Drop Proof
- 1000 VAC/DC
- RS232 Interface
- Diode
- Continuity
- Data Hold



TECHNICAL SPECIFICATIONS	
DC/AC VOLTAGE	50m,500m,5,500,1000V
DC/AC CURRENT	500μ,5000μ,50m,500m, 5,10A
RESISTANCE	50,500,5K,50K,500K,5M, 50MΩ
FREQUENCY	6Hz TO 125kHz
CAPACITANCE	50n,500n,5μ,50μ,500μ, 9999μF
ACCURACY	
DC VOLTAGE	0.08% + 2DGTS
AC VOLTAGE	1.0% + 4DGTS
DC CURRENT	0.2% + 4 DGTS
AC CURRENT	1.0% + 4 DGTS
RESISTANCE	0.4% + 3 DGTS
FREQUENCY	0.01% + 2 DGTS
CAPACITANCE	2.0% + 3 DGTS
PROTECTION	
DC/AC VOLTAGE	1050VRMS,1450V PEAK
AC/DC CURRENT	13A/500V FUSE (IR10kA) 15A/1KV FUSE (IR10kA)
RESISTANCE & OTHER RANGES	600V DC/AC RMS 1050 VRMS, 1450V PEAK
TRANSIENT	6.5KV LIGHTNING SURGE
PROTECTION	(1.2/50 μs)

Optional Accessories: RS232 Cable and Software (TBR81X)  
(TBR85X used with USB adaptor)

Dimensions(mm): 198(L) x 97(W) x 55(H)  
Power Source: 9V Battery  
Weight: 430g



**TBM811XEX**  
Intrinsically Safe  
1A/1kV (IR10kA) for μA & mA (1000V HRC Fuse)  
11A/1kV (IR20kA) for A (1000V HRC Fuse)



These meters comply to IEC/SANS 60079-0:2000 and IEC/SANS 60079-11:1999, which is an electrical apparatus for explosive gas atmospheres. Part 0 (general requirements) and Part 1 (intrinsic) The approved explosive protection rating of this equipment is Ex ib I/IC T6. SABS MS/S108X. Ex ib falls under zone 1 which is an area where flammable gas can occur in normal operating conditions.



## TBM812 / TBM812XEX GENERAL PURPOSE DMM (TRUE RMS)

- Splash/Drop Proof
- 6kV Transient Protection
- 1000 VAC/DC
- RS232 Interface
- Diode
- Continuity
- Data Hold



TECHNICAL SPECIFICATIONS	
DC VOLTAGE	50m,500m,5,500,1000V
AC VOLTAGE	50m,500m,5,500,1000V
DC CURRENT	500μ,5000μ,50m,500m, 5,10A
AC CURRENT	500μ,5000μ,50m,500m, 5,10A
RESISTANCE	50,500,5K,50K,500K,5M,50MΩ
FREQUENCY	6Hz TO 125kHz
CAPACITANCE	50n,500n,5μ,50μ,500μ,9999μF
ACCURACY	
DC VOLTAGE	0.08% + 2 DGTS
AC VOLTAGE	1.0% + 4 DGTS
DC CURRENT	0.2% + 4 DGTS
AC CURRENT	1.0% + 4 DGTS
RESISTANCE	0.4% + 3 DGTS
FREQUENCY	0.01% + 2 DGTS
CAPACITANCE	2.0% + 3 DGTS
PROTECTION	
DC/AC VOLTAGE	1050VRMS,1450V PEAK
AC/DC CURRENT	13A/500V FUSE (IR10kA) 15A/1KV FUSE (IR10kA)
RESISTANCE & OTHER RANGES	600 V DC/AC RMS 1050 VRMS, 1450V PEAK
TRANSIENT	6.5KV LIGHTNING SURGE
PROTECTION	(1.2/50 μs)

Optional Accessories: RS232 Cable and Software (TBR81X)  
(TBR85X used with USB adaptor)

Dimensions(mm): 198(L) x 97(W) x 55(H)  
Power Source: 9V Battery  
Weight: 430g



**TBM812XEX**  
Intrinsically Safe  
1A/1kV (IR10kA) for μA & mA (1000V HRC Fuse)  
11A/1kV (IR20kA) for A (1000V HRC Fuse)



**TBM812SEX**  
1500V (No current)



**TBM812SEX**  
Intrinsically Safe  
1500V (No current)

