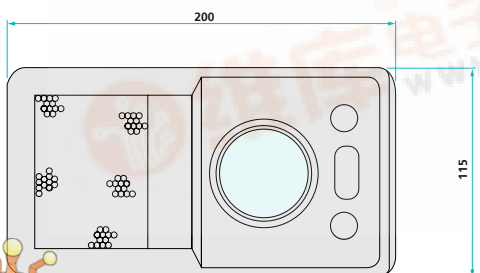# DESKTOP
R55 2" Marcus™

Microsoft DOS, Windows & NT compatible.

- **QUADRATURE, PS/2, RS232 & SUN CONNECTION FORMATS**
- **WINDOWS 95™ & 98™ COMPATIBLE**
- **MICROSOFT™ / MOUSE SYSTEMS™ / SUN™ / DEC™ / APPLE™ FORMATS**
- **ROBUST CONSTRUCTION**

THE R55 (2") MARCUS

The Industry Benchmark – The Original Marcus RB2 Trackerball. Now in it's 12th year of production, the R55 provides a high quality robust desktop Trackerball that continues to provide reliable service in many industrial and professional user applications. The Trackerball is capable of operating in all standard PC environments and can be configured to operate with SUN and DEC systems.

TECHNICAL DRAWINGS

200

115

70

CONNECTIONS AVAILABLE

PS/2 (MALE)

9 – WAY D SOCKET (FEMALE)
CABLE LENGTH = 2 METRES

SPECIFICATIONS

MECHANICAL

Weight	650gms
Ball	Thermoset Phenolic, 57mm, 2¼"
Tracking force	15gms Nominal Continuous - No seal (IP40/NEMA 1)
Ball load	200N Maximum downward pressure (20kg) @ 20°c
Ball rotation	Continuous and reversible - any direction
Ball speed	200 RPM maximum
Housing material	ABS
Transducer	Photo-optical encoders with LED's
Mounting position	Horizontal to 30°

ELECTRICAL

Standard output connector	2M Screened lead to PS/2 6 way Mini DIN
Converter	PS/2 to Converter block to RS232
Resolution	800 pulses per ball revolution (other options available on request)
Switches	3 switch - Left, Middle, Right
Supply voltage	5 VDC+/-5%
Supply current	Protocol format 16 ma typical
Optional backlight	+5 VDC, 100 ma

ENVIRONMENTAL

Operating temperature	-5°c to +70°c
Storage temperature	-10°c to +85°c
Humidity	30% min, 95% max, non-condensing
Vibration	5 G, 2-5Khz any plane
Shock	50G's - duration 11ms
Lifetime	> 10 million ball revolutions

STANDARD PRODUCT OPTIONS

A TOP PLATE SEALING	B ELECTRICAL OUTPUT		C INTEGRATED SWITCHES
1 No seal in top plate IP40/NEMA 1	0	Quadrature	3 Three switches
	7	Multi-Protocol Interface - PS/2, RS232, SUN, DEC, (MS & Microsoft)	
	8	SUN Systems	
D MOUNTING	**E TOP PLATE / BODY STYLE**		**F BALL COLOUR**
3 Free standing	3 Moulded case cream		0 Black

PRODUCT ORDERING CODE **R55 - A B C D E F** *Please fill letters A to F using numbers from the table above*

CONFIGURATION

DIP SWITCH CONFIGURATIONS

Switch	Function	OFF	ON
1	No function		
2	Baud rate select	See table	See table
3	Baud rate select	See table	See table
4	Protocol mode	See table	See table
5	Middle button latch enable	Latch OFF	Latch ON
6	Cursor Tracking rate enabled	Linear	Ballistic (Exponential)
7	Protocol Mode	See table	See table
8	Output signal forced to TTL	Standard Output	Output at TTL Level

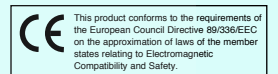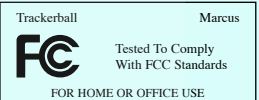Default factory setting – Switches: Switch 7 ON; All other switches OFF

BAUD RATE CONFIGURATION

Baud Rate	Switch 2	Switch 3
1200	OFF	OFF
2400	OFF	ON
4800	ON	OFF
9600	ON	ON

Note: baud rate must only be changed with the device powered off

PROTOCOL SELECT

Protocol	Switch 4	Switch 7	Switch 8
Auto Detect – PS/2, Mouse Systems	OFF	OFF	OFF
SUN Systems	OFF	OFF	ON
Auto Detect – Microsoft (RS232), PS/2	OFF	ON	OFF
Mouse Systems / SUN	ON	OFF	OFF
DEC / MM	ON	ON	ON

Note: protocol must only be changed with the device powered off

Trackerball	Marcus
FC	Tested To Comply With FCC Standards
	FOR HOME OR OFFICE USE

CE This product conforms to the requirements of the European Council Directive 89/336/EEC on the approximation of laws of the member states relating to Electromagnetic Compatibility and Safety.