

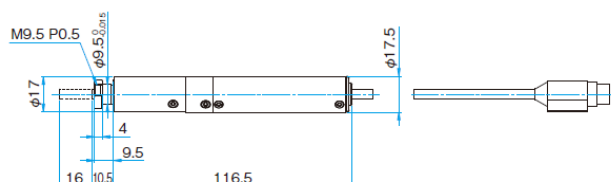
Remote Micrometer Head RMH

NEW
Catalog Code
W8018

High precision motorized actuators with compact DC motor and high resolution gear head. Includes an optical rotary encoder for high resolution and repeatability. Designed to be a direct replacement for micrometer heads on OptoSigma manual stages and holders.



Outline Drawing



Guide

- ▶ Please contact us for additional information regarding mounting on existing stages or holders.
- ▶ Spindle dimensions and threads can be customized. Please contact us for more information.

Specification

Part Number	RMH-13
Travel[mm]	13
MAX Speed[mm/sec]	1
Positioning Accuracy[mm]	0.020
Positional Repeatability[mm]	0.002
Backlash[mm]	0.003
Resolution[mm]	0.001
Thrust Force[N]	29.4 (3kgf)
Outer Size[mm]	$\phi 18 \times 117$
Weight[kg]	0.125
Temperature of Operation[°C]	0~40(non condensation)
Ambient Humidity[%]	20~80
Length of Cable[m]	0.5m

EU RoHS

CE Mark (pending)

Option

■ Extension cable for Remote Micrometer RM-CA

Specification

Part Number	RM-CA-2	RM-CA-5
Length of Cable[m]	2	5

RMH-13 and RMC-102



Coordinate values at the time of power shutdown are saved on the controller side and the coordinate values saved at power on are displayed.

<http://www.global-optosigma.com/>



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RMH-RMC-J1710

Remote Micrometer Controller

RMC

NEW

Catalog Code

W8019

Controller for remote micrometers. Closed loop control for accurate positioning. Axes can be controlled independently or simultaneously for maximum flexibility.



● Includes USB interface for PC control using virtual COM port.

Attention

- ▶ Please use included AC adapter. May not function properly with others.
- ▶ USB cannot be used for power.

Specification	
Part Number	RMC-102

EU RoHS

CE Mark (pending)

Primary Functions

Number of Control Axes	2 axis (independent control, simultaneous control)
Stored Program Control	-
Feedback Control	Optical rotary encoder
Circular Interpolation Control	-
Linear Interpolation Control	-
Coordinate Setting Range	+/-99.999mm

General Specifications

Power Voltage	DC6V 1.5A
	1.5A
Attached AC Adapter	AC90-240V
	50/60Hz
	12W
Operating Temperature	5 - 40°C
Ambient Humidity	20 - 80%RH
Storage Temperature	-20 - 60°C (non condensation)
External Dimensions (W×H×Dmm)	136x58.5x73 (excluding protrusions)
Weight (kg)	0.4

Interface

USB2.0	USB miniB female connector
	Virtual serial port
	Baud rate 9,600
	Data length 8 bit
	None parity
	Stop bit 1 bit
	Delimiters CR+LF
	None flow control

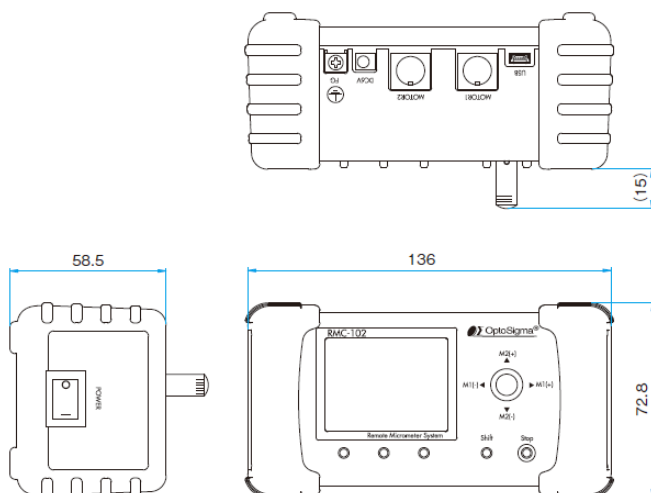
Performance Specifications

Travel speed setting	8 steps
Minimum travel distance	0.001mm
Joystick	
	Up down left right
Rotation + Shift button	Drive operation of 2 axis, minimum pitch feed
Stop button	Simultaneous 2 axes deceleration stop
Stop button + Shift button	Deceleration stop
Home button	Return to mechanical origin
Zero button	Return to electronic (logical) origin
Zero button + Shift button	Set electronic (logical) origin
Axis button	Specify the control axis

PC Control

Available Commands	Machine Origin Return
	Theoretical Origin Setting
	Relative Position Drive
	Absolute Position Drive
	Jog Operation
	Drive
	Deceleration Stop
	Speed Setting

Outline Drawing



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RMH-RMC-J1707