

GC 100

Remote Control for AMS / LGS Goniophotometers

Key features at a glance

- ▲ Convenient manual control of up to 5 motorized axes
- ▲ Illuminated touchscreen with extended display and control functions
- ▲ High positioning accuracy with 0.01° angle resolution and 0.1 mm step size
- ▲ Direct selection of frequently used positions (e.g. ±90°, 0/0°) or selection by number pad



The new GC 100 remote control enables convenient control of our AMS (CIE Type A) and LGS (CIE Type C) series of goniophotometers. Optronik models AMS 5000, 3000 and 200 can be used for the highly accurate measurement of external vehicle illumination and traffic lights. Models LGS 1000, 650 and 350 have been optimized for the diverse applications in the areas of general lighting and SSL.

\\ SAMPLE POSITIONING MADE EASY

The GC 100 is used to align the optical reference point of the test sample to the optical axis of the respective receiver prior to measurement, or it can be easily and quickly positioned by hand in set-up mode. The device display always shows the current measured value in lux or candela, the active measurement channel, the angle of the axes of rotation and, if applicable, the position of the linear axes. In addition, the GC 100 remote control has an emergency stop button for instantaneously stopping the movement of the machine in the event of danger.



▲ *The stable metal holder attaches the GC 100 easily to the goniometer housing, the control rack or the laboratory wall.*

\\ USER-FRIENDLY CONTROL

The GC 100 is controlled by two control elements: an illuminated touchscreen gives the user multiple selection options, and a rotary knob consisting of an inner and an outer ring is used for fast or step-by-step movement of the goniometer axes.

The functionalities of the touchscreen include the following:

- Selection of the axis of rotation to be moved (AMS in the H/V, LGS in the C/γ coordinate system)
- Selection of the linear axis to be moved in X-, Y- or Z-direction (AMS only)
- Display of the axis status
- Display of the measured value of the active measurement channel
- Movement to pre-defined and freely selectable positions

The jog/shuttle control knob is used for positioning the goniometer axes without a fixed position assignment, and in particular fine positioning of the test sample. To finalize the set-up of the test sample, the manually approached position can be saved by the LightCon software with the "Get Position" command and assigned to the test sample. The GC 100 thus makes the set-up process on goniophotometers convenient, fast and efficient.

\\ TECHNICAL SPECIFICATIONS

GC 100 – Gonio Remote Control	
1. Device	
1.1 Manufacturer and brand name	Instrument Systems Optische Messtechnik GmbH
1.2 Type and sales designation	GC 100
2. Application	
2.1 Area of application	Instrument designed for interior use
2.2 Special area of application	Axis positioning for goniophotometer, display of measured value / active channel
3. Control elements	
3.1 Display	LC Display
3.2 Input elements	Touchscreen Jog/shuttle-control knob for moving the axes Emergency stop button
4. Interfaces	
4.1 Interfaces	Connector plug for goniometer type specific connection cable
4.2 Transmitted signals	CAN for system communication 4 pole emergency stop circuit Power supply
5. Electrical supply	
5.1 Electrical operating mode	Suitability for continuous operation
5.2 Nominal voltage	24 V DC
5.3 Nominal power consumption	3 W
6. Protection class / IP class	
Protection class	III (safety extra-low voltage)
IP class	IP 40
7. Mechanical data	
Dimensions (L x W x D)	265 mm x 102 mm x 53 mm
Weight	480 g
8. Environmental conditions	
Operating temperature	+5 °C ... +40 °C
Storage temperature	-5 °C ... +40 °C
Relative humidity	0...70 % rF, non-condensing
Operating altitude	< 2000 m
9. Compliance	
Compliance	CE (2014/30/EU, 2011/65/EU, 2012/19/EU), FCC, KC
Product safety	RL 2006/42/EG, DIN ISO 12100, DIN EN 61010-1

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