

# Leica ComBox60

## THE Monitoring Box



### 1-2-3-Monitor

Making customised, cumbersome and complicated communication boxes a thing of the past, the ComBox60 simplifies the process of getting into automated monitoring. Designed with simplicity in mind, the Leica ComBox60 only needs to be mounted in the field, have the sensors connected to it, and with the press of a button, it is all set up and ready to start monitoring. Leica GeoMoS office software users can perform configuration of all ComBox60 devices in the project from one centralised view, which significantly speeds up the configuration process.



### Rugged & Efficient

Small, compact and lightweight, the ComBox60's rugged, weather-proof exterior can withstand all types of harsh environmental conditions. Its IP66 rating and extended temperature range eliminate the need for additional protective enclosure for outdoor use. With specially designed power saving mode and inbuilt environmental and diagnostic sensors, it can reduce its power consumption allowing prolonged use of ComBox60 and monitoring sensors. The internal battery also has the possibility of being recharged with solar panels.



### Intelligent and Autonomous

The combination of a power management system and an embedded Leica GeoMoS Edge software transforms this communication box into an intelligent, autonomous device. Never have data gaps again even in the event of power and/or communication failure. When communication to the GeoMoS office software is lost, the ComBox60 will continue to autonomously control monitoring sensors based on configured measurement cycle, intelligently adapting to environmental conditions and locally logging raw data. In case of power outage, the ComBox60 will run on its internal battery.

[leica-geosystems.com](http://leica-geosystems.com)



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## TECHNICAL AND ENVIRONMENTAL DATA

Dimensions (W x H x D) w/o antenna	375 mm x 316 mm x 86 mm (14.76 in x 12.47 in x 3.39 in)
Dimensions (W x H x D) with antenna	375 mm x 358 mm x 86 mm (14.76 in x 14.09 in x 3.39 in)
Weight w/o antenna	3900 g (8.6 lbs)
Weight with antenna	4127 g (9.1 lbs)
Operating Temperature	-40 °C to 70 °C (40 °F to 158 °F)
Humidity	5 to 95% non-condensing
Maximum Operating Altitude	4000 m (13123 ft)
IP Rating	IP66
eMMC Flash Memory	8 GB
Onboard software	Leica GeoMoS Edge

## POWER MANAGEMENT

Input Voltage	Nominal voltage 24 VDC, range 15-26 VDC
Power Input	Up to 2500 mA (Charge mode), 200 mA RMS (Standard mode), 20 mA RMS (Low power mode), @24 VDC
Direct Connect Solar Panel	Maximum peak power (Pmax): 160 W Maximum open circuit voltage (Voc): 22.9 V Optimum operating voltage (Vmp): 20.2 V Maximum operating current (Imp): 7.92 A
Battery	12.8 V 9.9 Ah (126.72 Wh) LiFePO <sub>4</sub>

## CONNECTORS AND INTERFACES

Cellular Connector	N-Type Female coaxial
Network Connector	8-pin Female
Sensor Connector	12-pin Female
Network I/O	10/100 Mbps Ethernet
Sensor I/O (12.8 VDC Out, up to 20 W)	Port 1: USB, RS-232, RS-485 Port 2: RS-232, RS-485 Port 3: RS-232, RS-485

## CELLULAR NETWORKING

	4G BANDS	3G BANDS	2G BANDS
Europe	B1, B3, B7, B8, B20	B1, B8	GSM900, DCS1800
North America	B2, B4, B5, B12, B13, B14, B66, B71	B2, B4, B5	-
Australia	B1, B3, B5, B8, B9, B18, B19, B26, B28	B1, B5, B6, B8, B19	-
South America	-	B1, B2, B4, B5, B8	GSM850/900, DCS1800, PCS1900

## INTERNAL SENSORS

System Temperature	-40 °C to 70 °C (-40 °F to 158 °F), precision +/- 0.3 °C (+/- 0.5 °F)
Barometer	Measurement range 0.26 bar - 1.26 bar, precision 0.25mbar RMS

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**Leica Geosystems AG**  
Heinrich-Wild-Strasse  
9435 Heerbrugg, Switzerland  
+41 71 727 31 31

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