

Leica M-Com

Plug & Play Solutions for Monitoring Communication

Leica Monitoring
Solutions



- when it has to be **right**

Leica
Geosystems

Leica M-Com Plug & Play Solutions for Monitoring Communication

The Leica M-Com series are the first compact plug & play solutions for monitoring communication. The Leica ComBox provides the communication from the sensors in the field to the Internet. To keep the monitoring system running during communication breakdowns, the optional Leica MonBox enables Leica GeoMoS to run on-site in an integrated embedded computer. The Leica M-Com series offers easy installation, reliable communication, connection of multiple sensors and external devices. This increases the mobility for periodic or short term monitoring systems.

Leica M-Com Components

Leica ComBox10/20

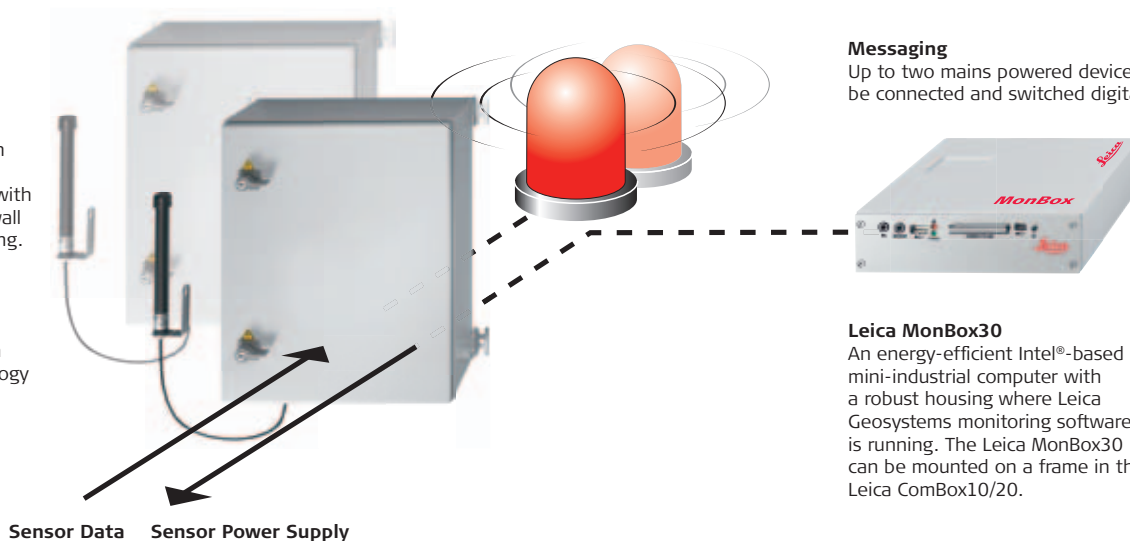
The main components of both communication boxes are the power supply and the wireless router. The boxes differ in the number of available sensor connections.

Outdoor Housing

Both communication boxes consist of a compact enclosure with a lock system and wall brackets for mounting.

Data Transmission

GPRS/UMTS Technology



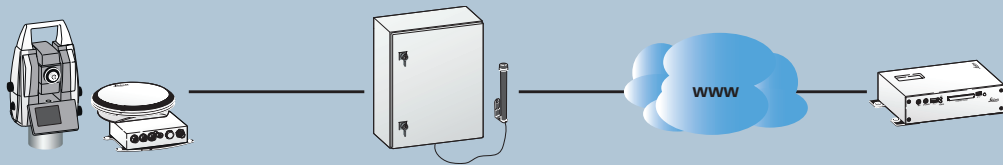
Messaging

Up to two mains powered devices can be connected and switched digitally.

Leica MonBox30

An energy-efficient Intel®-based mini-industrial computer with a robust housing where Leica Geosystems monitoring software is running. The Leica MonBox30 can be mounted on a frame in the Leica ComBox10/20.

Use case: Simple Monitoring System



Up to two sensors can be connected to one box:

- TPS
- GPS/GNSS
- Nivel
- Geotechnical sensor

Leica ComBox10:

Transmits the acquired measurement data with a wireless router (GPRS/UMTS) to the Internet.

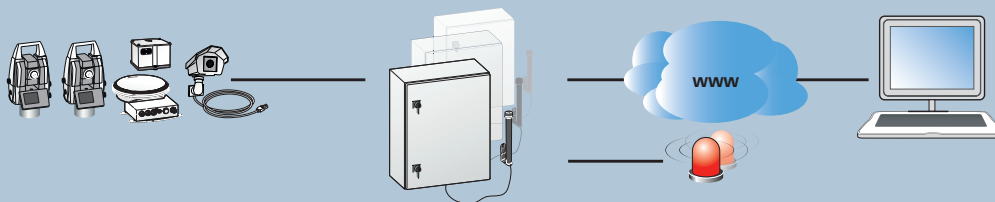
Leica MonBox30:

- Can be used as a stand-alone monitoring solution in the field or in the office.
- Leica GeoMoS is pre-installed.

Benefits:

- Simple "plug and play" installation
- Pre-configured and pre-installed software
- Leica MonBox30 as a stand-alone version

Use case: Advanced Monitoring System



Up to four sensors can be connected to one box:

- TPS
- GPS/GNSS
- Nivel
- Geotechnical sensor
- PoE Webcam

Leica ComBox20:

- Transmits the acquired measurement data with a wireless router (GPRS/UMTS) to the Internet.
- Contains Power over Ethernet (PoE) webcam access points and a meteo sensor.

Messaging:

Up to two mains powered devices can be connected and digitally switched per box.

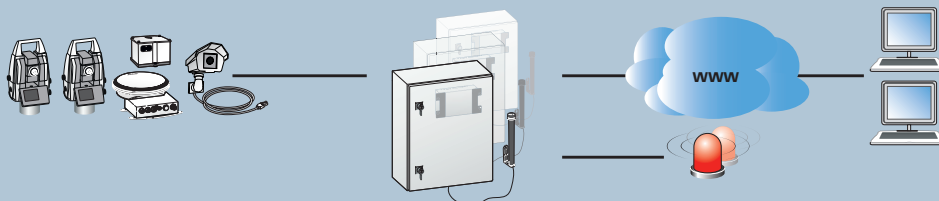
Office:

With Leica GeoMoS or GeoMoS Web the data can be analyzed and visualized.

Benefits:

- Multiple boxes for large projects
- Pre-configured communication boxes
- Messaging with main powered devices
- Fast and flexible sensor connectivity to mobile Internet

Use case: Intelligence in the Field for Remote or Critical Applications



Up to four sensors can be connected to one box:

- TPS
- GPS/GNSS
- Nivel
- Geotechnical sensor
- PoE Webcam

Leica ComBox20:

- Transmits the acquired measurement data with a wireless router (GPRS/UMTS) to the Internet.
- Contains the Leica MonBox30, PoE webcam access points and a meteo sensor.

Messaging:

- Up to two mains powered devices can be connected.
- Messaging directly from the field with SMS and E-mail.

Remote access:

Via Leica GeoMoS Web

Benefits:

- Intelligence in the field
- Keeps running when communication link is down
- Remote configuration
- Messaging functionality (SMS, E-mail)
- Data available online

Whether you monitor the movement of a volcanic slope, the structure of a long bridge or track the settlement of a dam; whether you measure, analyse and manage the structures of natural or man-made objects: the monitoring systems by Leica Geosystems provide you with the right solution for every application.

Our solutions provide reliable, precise data acquisition, advanced processing, sophisticated analysis and secure data transmission. Using standard interfaces, open architectures and scalable platforms, the solutions are customizable to meet individual requirements – for permanent and temporary installations, for single sites and monitoring networks.

When it has to be right.



Total Quality Management – our commitment to total customer satisfaction.

Ask your local Leica Geosystems dealer for more information about our TQM program.

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Monitoring Solutions:
Leica Monitoring Overview Brochure



Software/Web service:
Leica GeoMoS
Leica GeoMoS Web
Leica GNSS Spider
Leica SpiderQC
Leica CrossCheck



Total Stations:
Leica TPS1200+ Series
Leica TM30



GPS/GNSS:
Leica GMX901
Leica GMX902 GG
Leica GRX1200+ Series
Leica GPS1200+ Series



Other:
Leica Nivel210/220
Leica GPR112
Monitoring Prism