Leica M-Com

Plug & Play solutions for monitoring communication

Monitoring Solutions

PART OF HEXAGON

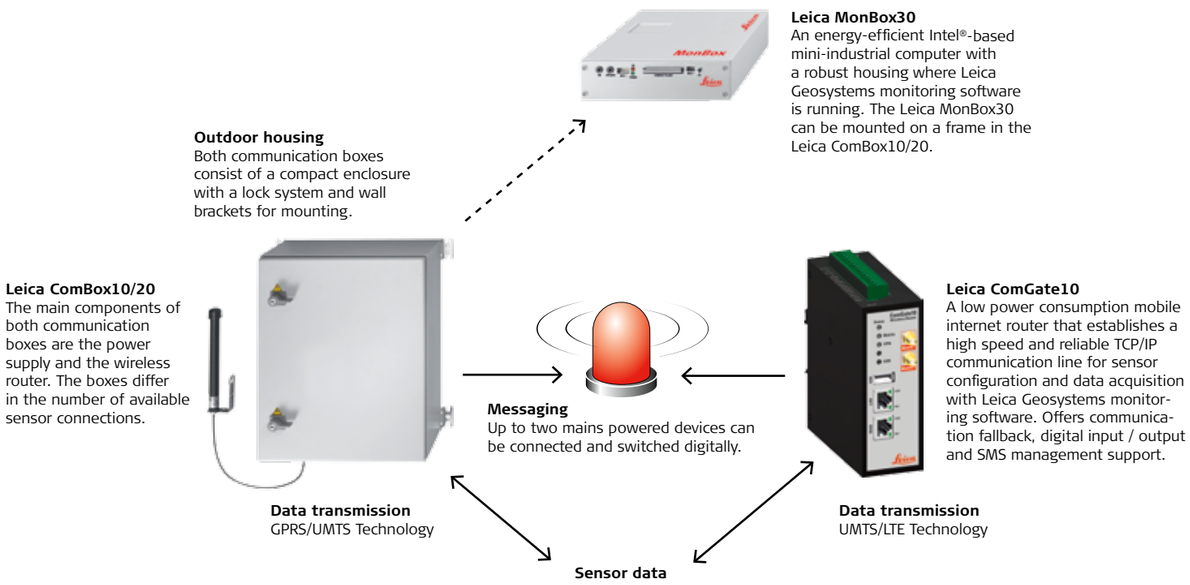
- when it has to be **right**

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/ComGate 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 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.

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

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.

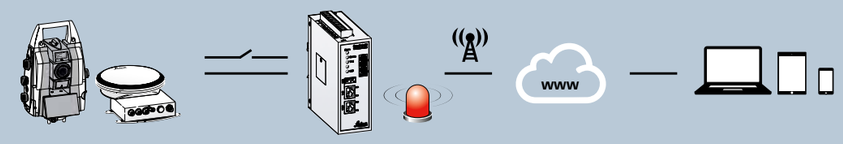
Messaging
Up to two mains powered devices can be connected and switched digitally.

Leica ComGate10
A low power consumption mobile internet router that establishes a high speed and reliable TCP/IP communication line for sensor configuration and data acquisition with Leica Geosystems monitoring software. Offers communication fallback, digital input / output and SMS management support.

Data transmission
GPRS/UMTS Technology

Data transmission
UMTS/LTE Technology

Use case: Simple monitoring system



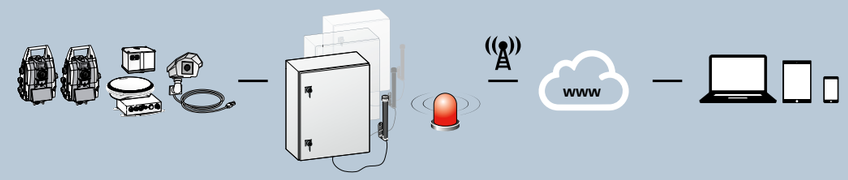
Up to two sensors can be connected to one box:
- Total Station
- MultiStation
- GPS/GNSS sensor
- Nivel
- Geotechnical sensors

Leica ComGate10:
- Transmits the acquired measurement data with a mobile router (UMTS/LTE) to the internet

Office:
- With Leica GeoMoS or GeoMoS Web the data can be analysed and visualised

Benefits:
- Simple sensor connectivity via serial or USB
- TCP/IP connection via mobile Internet (UMTS/LTE Technology) or WAN/LAN
- Communication fallback with secondary line
- Provides sensor cold boot

Use case: Advanced monitoring system



Up to four sensors can be connected to one box:
- Total Station
- MultiStation
- GPS/GNSS sensor
- Nivel
- Geotechnical sensors
- PoE Webcam

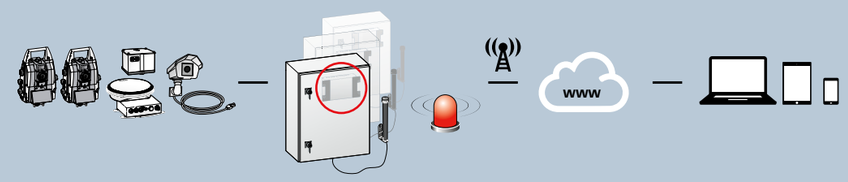
Leica ComBox10/20:
- Transmits the acquired measurement data with a wireless router (GPRS/UMTS) to the Internet.
- Contains Power over Ethernet (PoE) webcam access points and a meteo sensor (only ComBox20)

Messaging:
- Up to two mains powered devices can be connected and digitally switched per box (only ComBox20)

Office:
- With Leica GeoMoS or GeoMoS Web the data can be analysed and visualised

Benefits:
- Simple “plug and play” installation
- Pre-configured communication boxes with cables, power supply and housing
- Fast and flexible sensor connectivity to mobile internet
- Messaging with main powered devices (only ComBox20)
- Multiple ComBoxes for large projects possible

Use case: Intelligence in the field for remote or critical applications



Up to four sensors can be connected to one box:
- Total Station
- MultiStation
- GPS/GNSS sensor
- Nivel
- Geotechnical sensors
- 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 (only ComBox20)

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:
- Data acquisition 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 customisable to meet individual requirements – for permanent and temporary installations, for single sites and monitoring networks.

When it has to be right.

Swiss Technology
by Leica Geosystems

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Software/Web service:
Leica GeoMoS
Leica GeoMoS Web
Leica GNSS Spider
Leica GeoMos Highspeed
Leica CrossCheck

Total Stations:
Leica Nova MS50
Leica Nova TM50
Leica Viva TS15

GPS/GNSS:
Leica GMX901plus
Leica GMX902 Series
Leica GM10

Other:
Leica Nivel210/220
Leica GPR112
Monitoring Prism

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Heerbrugg, Switzerland

www.leica-geosystems.com

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