

MIRA – WEATHER STATION

The MIRA WEATHER STATION is a combination of a MIRA gamma dose rate monitoring station and a Vaisala weather transmitter. The MIRA collects the data from the weather transmitter and store it in its internal memory. The data from the MIRA and the weather transmitter are transferred by the MIRA to the monitoring center by Ethernet, Cellular and/or Radio. The combination of the MIRA and Vaisala weather transmitter offers the possibility of easy gamma dose rate monitoring and detailed weather monitoring. The MIRA – Weather station is available as a mobile version with tripod or as a stationary station for pole or wall mounting. The mobile version uses a solar panel and battery for independent operation. The stationary station can be connected to a main power supply and/or equipped with a solar panel and battery as option.

MIRA WEATHER STATION



TECHNICAL DATA MOBILE VERSION

■ MIRA gamma detector unit

Ambient gamma dose rate $H^*(10)$: 10 nSv/h – 10 Sv/h
(details s. MIRA – GAMMA DOSE RATE MONITORING SYSTEM)

■ Vaisala WXT520 weather transmitter (or equivalent)

Wind speed: 0 m/s – 60 m/s
Wind direction: 0° - 360°
Rainfall: resolution 0.01 mm
Rainfall duration: resolution 10 s
Rain intensity: 0 mm/h – 200 mm/h
Barometric pressure: 600 hPa – 1100 hPa
Air temperature: -52°C – 60°C
Relative humidity: 0 %RH – 100 %RH
No moving parts – low maintenance
(details s. Vaisala WXT520 WEATHER TRANSMITTER)

■ Communication

Ethernet
Cellular (option)
Radio (option)
(For more details s. data sheet MIRA – GAMMA DOSE RATE MONITORING SYSTEM)

■ Power supply

Solar panel (5 Wp) with battery (LiFePO₄, 10 Ah, 12 V)
(Angle of the panel is adjustable)
Housing IP 66

■ Mechanics

Foldable tripod, 2 section-legs
Possibility to mount counterweight or anchor for more stability
Height approx. 2-3 m (depends on tripod setting)
Weight approx. 13 kg

■ Environmental operation conditions

Temperature range: -40°C to +60°C
Relative humidity 0 %RH – 100 %RH

■ Carrying case

Dimension 1121 x 409 x 355 mm
Total weight approx. 25 kg
(case + station)

■ Ordering information

Part Number MIRA-800-0200

TECHNICAL DATA STATIONARY VERSION

■ MIRA gamma detector unit

Ambient gamma dose rate $H^*(10)$: 10 nSv/h – 10 Sv/h
(details s. MIRA – GAMMA DOSE RATE MONITORING SYSTEM)

■ Vaisala WXT520 weather transmitter (or equivalent)

Wind speed: 0 m/s – 60 m/s
Wind direction: 0° - 360°
Rainfall: resolution 0.01 mm
Rainfall duration: resolution 10 s
Rain intensity: 0 mm/h – 200 mm/h
Barometric pressure: 600 hPa – 1100 hPa
Air temperature: -52°C – 60°C
Relative humidity: 0 %RH – 100 %RH
(details s. Vaisala WXT520 WEATHER TRANSMITTER)

■ Communication

Ethernet
Cellular GPRS/LTE (option)
Radio (option)
DSL (option)
TETRA (option)
Other on request
(For more details s. data sheet MIRA – GAMMA DOSE RATE MONITORING SYSTEM)

■ Power supply

Main power supply 110 V / 230 V
Optional solar panel (5 Wp) with battery (LiFePO₄, 10 Ah, 12 V) (Angle of the panel is adjustable)

■ Mechanics

Base unit (stainless steel) IP 65 for pole or wall mounting
Dimension base unit approx. 400 x 400 x 200 mm
Pole height 1 m (other on request)
weather station
(pole for base unit mounting on request)

■ Environmental operation conditions

Temperature range: -40°C to +60°C
Relative humidity 0 %RH – 100 %RH

■ Ordering information

Part Number
MIRA-800-0210 MIRA – Weather station (stationary, solar)
MIRA-800-0215 MIRA – Weather station (stationary, 230 V)
MIRA-800-0225 MIRA – Weather station (solar)