iMETOS® RADIO NODE

iMETOS® RadioNode is a small, wireless, battery powered datalogger for in-field measurement of soil moisture, temperatures, rain, flow rate, leaf wetness, relative humidity and other parameters. iMETOS® RadioNode sends all sensor readings in real time through an interactive mesh network back to our base station. From the base station the data is uploaded to the web via cellular network (GPRS, Edge, UMTS, CDMA,WiFi). All data is available through FieldClimate platform.
In case of risk situations (frost, irrigation needs etc.) user can get real time automatic alerts and warnings via SMS. To connect iMETOS® RadioNode to the iMETOS® 3.3 RF Access Point (Art.No. RFRN15) is needed.

Housing:	UV resistant polycarbonate plastic (Protection class IP67)
Dimensions without sensors	30 cm L x 16 cm W x 19 cm H
Weight without sensors	1,6 kg
Power Supply	One 3.6V Lithium Primary Cell with 19.000mAH (7 years operation)
Model/Type	Texas Instruments RF CC1120 module with integrated ultra low power sub-GHz transceiver module; integrated crystal, internal voltage regulator, build in antenna global using free ISM bands, ISM Band 915 MHz: USA, Canada, Australia, Israel etc. ISM Band 868 MHz: Europe ISM Band 433 MHz: Asia
Expected range	300 to 400 meter (1200 to 1400 ft.) at +10dBm, broad line of sight, when mounted on level ground at least 3 m (10 ft.) high and above crops, grass, brushes or foliage
Sensors supported	**RFRN09 iMETOS® Radio Node Climate** with input for rain gauge 0,2mm (0,01 inch) (Art. No. IM523) or water meters pressure switch (Art.No. PS010) or leaf wetness sensor (Art. No. IM521CD), 1 temperature and relative humidity sensor, Hygroclip (Art.No. A660611), 2 temperature sensors , 2 Watermark Sensors, 2 Decagon Sensors **RFRN12 iMETOS® Radio Node Watermark/Decagon** with input for rain gauge 0,2mm (0,01 inch) (Art.No. IM523), 1 temperature sensor (WMTEMP), 4 Watermark sensors, 4 Decagon sensors **RRRN13 iMETOS® Radio Node DD** with input for rain gauge 0,2mm (0,01 inch) (Art.No. IM523), 1 Drill&Drop Sentek probe, 2 Watermark , 2 Decagon, with solar panel and 6V, 4.5AH battery and external antenna