

Mobile Dataloggers

Battery operated GSM modem

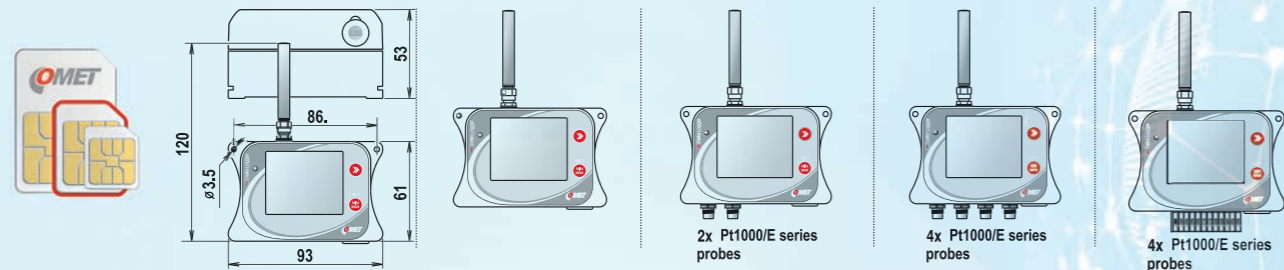


- Accurate measurement of
 - Temperature
 - Humidity
 - Dew point
 - CO₂
 - Atmospheric pressure
 - Events
 - Current (4 – 20 mA)
 - Pulses
- Nonvolatile memory for 500 000 records
- Indication of alarms via text message, 3-colour LEDs, and speaker
- Easy to use software Comet Vision 2.0 for data analysis
- Communication interfaces - USB-C and GSM modem
- Rugged design
- Long standby time on a single charge
- Logger deployment down to -20°C

product catalog



MEASURED VALUES			Temperature			
datalogger model			U0110G	U0121G	U0141G	U0141TG
temperature	internal	range	-20 to +60°C	-		
		accuracy	±0.4°C	-		
temperature	external	range	-	-90 to +260°C		
		accuracy*	-	±0.2°C		
typical battery life			From 6 months to several years, depending on the device settings and the number of messages sent.			
IP protection class			IP67			IP20



* accuracy of device w/o probe in measuring range of -90 to 100 °C (in range +100 to +260 °C is accuracy ±0,2 % of measured value)



Mobile dataloggers

Battery operated GSM modem

The built-in battery-operated GSM modem allows for alarm indication and data transmission. Data can be sent at intervals as short as 5 minutes to the COMET database software or COMET cloud via the data network. To preserve battery life, there is a function for data buffering to keep the GSM modem in sleep mode for extended periods. Users can also configure active notifications to periodically provide updates on the current state.

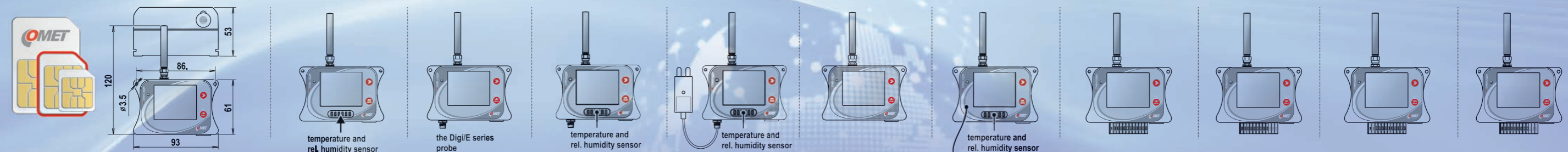
Data transmission via GSM

- Alarm indication via SMS text messages
- Still active messages
- Data collecting to COMET cloud

COMET Vision 2.0

- Device settings
- Download recorded data
- Analyse data in chart or table
- Present data
- Print out reports

MEASURED VALUES			Temperature, relative humidity		Temp., humidity, flood detector	CO ₂	Temp., humidity, CO ₂ , barometric pressure	Temperature, two-state input	Two-state inputs, counters	Current	Voltage	
datalogger model			U3120G	U3121G	U3631G	U3832G	U8410G	U4440G	U0843G	U7844G	U6841G	U5841G
temperature	internal	range	-20 to +60°C	-	-20 to +60°C	-20 to +60°C	-	-20 to +60°C	-	-	-	-
		accuracy	±0.4°C	-	±0.4°C	±0.4°C		±0.4°C				
temperature	external	range	-	according the probe	-90 to +260°C	-	-	-	-90 to +260°C	-	-	-
		accuracy*	-		±0,2°C	-	±0.2°C					
relative humidity**		range	0 to 100 % RH	according the probe	0 to 100 % RH	0 to 100 % RH	-	0 to 100 % RH	-	-	-	-
	accuracy ***	±1.8 %RH	±1.8 %RH		±1.8 %RH	±1.8 %RH						
dew point accuracy		accuracy ****	±1.5 °C		±1.5 °C	±1.5 °C		±1.5 °C				
CO ₂		range*****	-				0 to 5000 ppm	0 to 5000 ppm	-	-	-	-
		accuracy	-				±(50ppm+3% MV)	±(50ppm+3% MV)				
barometric pressure		range	-				600 to 1100 hPa	600 to 1100 hPa	-	-	-	-
		accuracy	-				±1.3 hPa	±1.3 hPa				
current (3x input)		range	-				-		4x binary input or 2x binary input and 2x counting input	0 - 20 mA	-	-
		accuracy	-				-			± 20 uA		
voltage (3x input)		range	-				-		-	-	0 to 10 V	-
		accuracy	-				-			±10 mV		
two-state inputs / (counter)			-	-	-	-	-	-	2	4	1	1
typical battery life			From 6 months to several years, depending on the device settings and the number of messages sent.									



* accuracy of device w/o probe in measuring range of -90 to 100 °C (in range +100 to +260 °C is accuracy ±0,2 % of measured value)
 *** accuracy of sensing element

** from 0 to 90 %RH at 23 °C
 **** at ambient temperature T<25°C and RH>30%
 ***** optional measuring range 10 000 ppm

flood detector
2,5 m

CO₂ concentration and barometric pressure sensors (inside the case)

Replaceable antenna.

Two buttons keypad for device control.

3-colour LED for alarm.

Large display for easier readability of current value, MIN/MAX values, and alarm indication.



Internal T/RH sensor.

Connector USB-C for simple connection and battery charging (SMS and CO₂ loggers).

Connectors for removable and interchangeable probes.