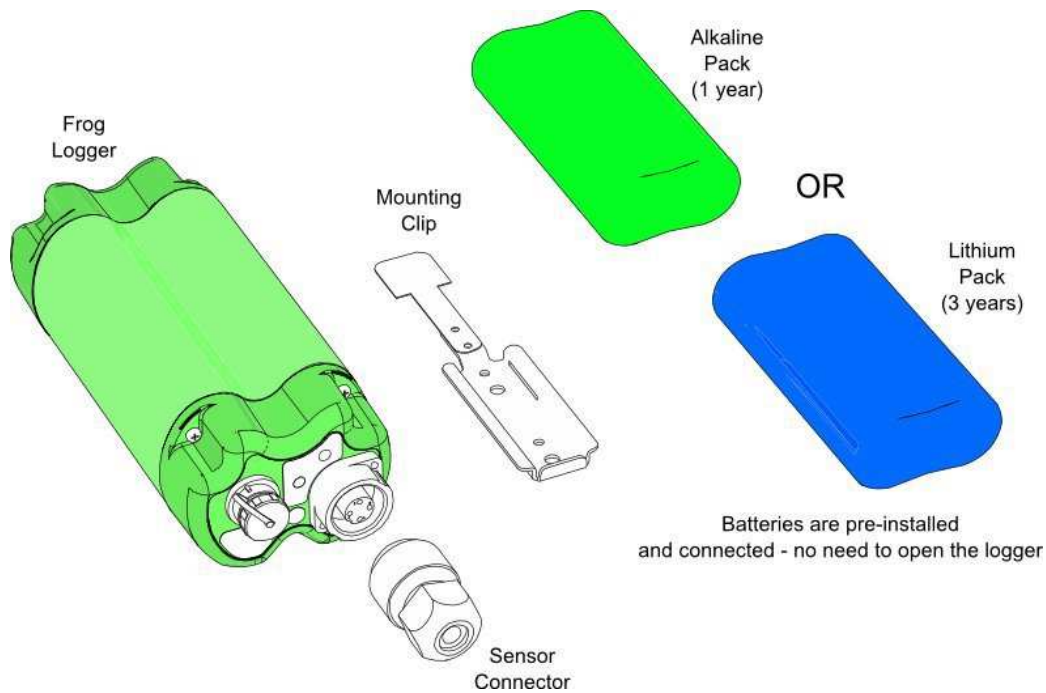


Frog RX GPRS Data Logger



Overview

Inputs	4-20mA, digital (pulse or state) & 8 SDI-12 <i>Configuration Options:</i> <ul style="list-style-type: none"> • 1 x 4-20mA & 1 x digital • 1 x 4-20mA & 7 x SDI-12 • 8 x SDI-12
Comms	Modbus ASCII, DNP3, Local RS232 to PC Serial or USB
Power	12V dc – Lithium or Alkaline Battery <i>External 12V dc supply option available</i>
Enclosure	IP68, Aluminium Body, Plastic End Caps Dimensions: 87mm x 75mm x 240mm

Detailed Specification

Analog Input <ul style="list-style-type: none"> • 4-20mA input • 50 ohm resistance • 1V maximum drop • 16 bit resolution A-D • 0.1 % accuracy • Transient protection 	Digital Input <ul style="list-style-type: none"> • 2s rainfall tip timing resolution • 65000 event count • 650Hz max frequency • On/off status • 10K internal pull-up resistor
SDI-12 Input <ul style="list-style-type: none"> • 8 Channels • Up to 8 sensor addresses 	Power Output <ul style="list-style-type: none"> • Switched 12V • 120mA output current • Configurable warm-up
Storage Capacity <ul style="list-style-type: none"> • 29768 16-bit readings • Total for up to 8 channels 	Storage Intervals <ul style="list-style-type: none"> • 10s 30s, 1m, 2m, 5m, 15m, 30m, 1h, 2h, 3h, 4h, 6h, 8h, 12h. • All channels set independently.
Communications <ul style="list-style-type: none"> • Internal GSM/GPRS mode • Internal antenna (optional external) • GPRS fixed address option • Local RS232 to PC serial or USB • Modbus ASCII • DNP3 	Power Supply <ul style="list-style-type: none"> • Internal 16 Ah Alkaline battery • Internal 64 Ah Lithium battery • External 12V lead-acid battery • External 6-24V dc supply
Dimensions <ul style="list-style-type: none"> • Width: 87mm • Depth: 75mm • Height: 240mm (270mm with connectors) 	Connectors <ul style="list-style-type: none"> • Sensor Inputs: 4 Pin Hirschmann Socket • Coms & Ext Power: 400 Series Buccaneer Socket
Protection <i>IP68 at 1.2m submersion for 48 hours without significant ingress.</i>	Operating Limits <i>-40–70 deg C, 0–100% RH</i>