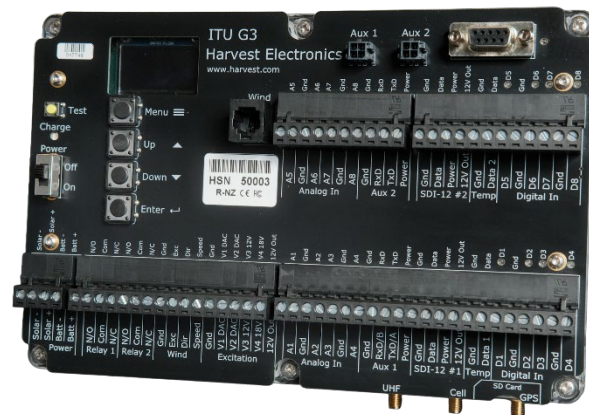


ITU G3 – Industrial Telemetry Unit

Each ITU G3 data logger is supplied as part of a fully integrated Harvest monitoring and control system. We configure each unit to suit your site and data requirements, test it before it leaves our premises, and deliver your data to the Harvest Live Data portal. Our team handles alerts and ongoing configuration changes remotely, so there's no programming or software required on your end.

We also work with consultants, contractors and system integrators to connect the ITU G3 with existing systems where required.



Specifications

Inputs

Analog inputs	8x, software-selectable ranges: 2V, 10V, 40V, 4–20mA
Digital inputs	8x, with counting and programmable edge filtering
SDI-12	2x independent ports, with overload protection
Wind	Dedicated analog port for mechanical wind speed and direction sensors
Temperature	2x Dallas 1-wire bus inputs for Harvest temperature and combined air temperature, relative humidity, and barometric pressure (THP) sensors

Outputs

Control	2x programmable latching relay outputs; contact rating 2A at 30V
Excitation	4x software-configurable: 2x variable 0-20V, 1x fixed 12V, 1x boosted 18V
12V Out	Direct from battery; with 1.5A self-resetting fuse
Aux power	Aux 1: 12V DC at 1A or 5V DC at 2A Aux 2: 5V DC at 2A
Protection	Overload protection on excitation, SDI-12 and auxiliary outputs

Comms

Cellular	Built-in cellular modem; custom configurations available
Satellite	Iridium option available
UHF	Built-in transceiver for Harvest wireless remotes
Serial	Aux 1: RS-232 or RS-485 (software selectable) Aux 2: logic-level serial, RS-232 tolerant
GPS	External GPS receiver supported

Data

Log fields	256
Logging interval	Configurable; logging on event/threshold
Reporting interval	Configurable; immediate reporting on event
Storage	64MB on-board flash
SD card	Slot for additional storage and offline updates
Display	OLED

Power

Battery	12V 7.2Ah VRLA; with 12V 12Ah option available
Charging	Rated at 12-28V DC, 2A Solar configuration: 20W panel as standard; 40W option available Mains configuration: 18V DC 1A power supply Custom configurations available
Battery management	On-board battery monitoring; reverse battery protection; front panel power switch

Connection Type

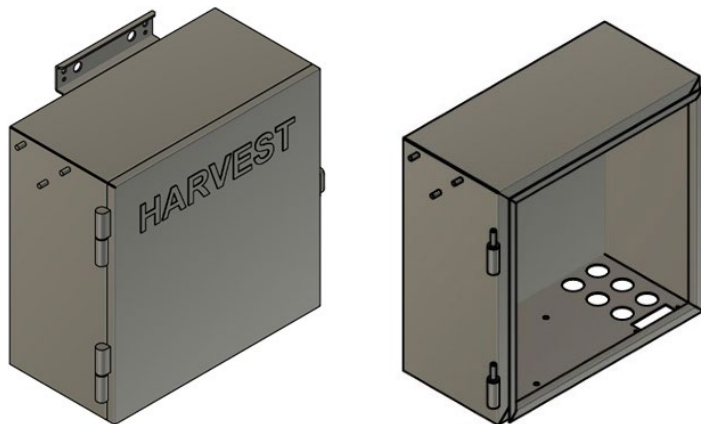
I/O	Pluggable screw terminals; wire gauge 0.2-2.5mm ²
Battery / power input	Pluggable screw terminals; wire gauge 0.2-2.5mm ²
Aux ports	Molex Micro-Fit; or pluggable screw terminals, wire gauge 0.2-2.5mm ²
Wind sensor	RJ11 jack; or pluggable screw terminals, wire gauge 0.2-2.5mm ²
Configuration	Terminal port (Harvest use only)
Cellular / satellite antenna	SMA female
UHF (wireless remote) antenna	SMA female
GPS receiver	SMA female

ITU vG3 Unit

Dimensions (W x H x D)	222 x 155 x 77 mm
Weight	1.1 kg

Enclosure

Material	316 stainless steel; brushed
Dimensions (W x H x D)	280 x 280 x 132 mm
Weight	Solar configuration: 6.1 kg Mains configuration: 3.8 kg 12V 7.2Ah battery: 2.4 kg
Cable entries	6x nylon cable bushes; 14.2mm maximum cable diameter
Mounting	Pipe (via supplied U-bolts) or wall



Enclosure Accessories

Solar panel mounting	316 stainless steel struts; mounted to rear of enclosure Solar option: mounted to solar panel strut
Antenna mounting	Mains option: mounted separately; antenna brackets or magnetic mounts available
Sensor mounting	Support for Harvest weather sensor bracketry (sold separately)