

Model GCTU-B (Battery/Cell powered)

Gas Collection and Transfer Unit for SF₆ and other non-aggressive gases

The Alpha Moisture Systems GCTU-B has been specifically developed to **collect all SF₆** sampled for analysis. The **Model GCTU-B** is also designed to recycle the entire SF₆ sample to the high or medium voltage switch(GIS)/transformer giving a **zero effect** to the installation and protecting the environment by eliminating any discharge to the atmosphere.

Completion of spot check analysis in under 10mins*

- 1. Connect & Set up**
- 2. Collect SF₆**
- 3. Take sample**
- 4. Transfer back**

The common usage of SF₆ in high and medium voltage switchgear and transformers has brought significant advantages in performance and reliability but, because SF₆ is a “greenhouse gas”, special precautions must be adopted when routine sample analysis is undertaken.



FEATURES

- Fully portable – re-chargeable batteries
- 7 fill/discharge cycles on single battery charge
- 12 bar maximum back fill pressure
- Rugged IP67 transport case
- User friendly operation with built-in fail safe features
- Supplied ready for use with connectors and high quality pipes and hoses
- Can also be connected to purity analysers

The **NEW GCTU-B** can be utilised with any field analysis instruments and because it is battery/cell operated and fully portable this provides a simple and effective method of achieving an environmentally friendly solution to SF₆ analysis and recycling.

Model GCTU-B is fully compatible with all Alpha Moisture Systems portable dewpoint hygrometers including Model SADPMini, Model SADPmini-Ex, SADPmini2, SADPmini2-Ex, Model SADPμ, Model SADPMini, Model P35, Model DSP-FCI, Model DSP-Ex.



Fully portable and aircraft friendly transport case

Specifications

Sampling System:

- Process pressure indicator.
- By-pass purge facility and large gas collection vessel.
- Sample flow regulator and valve (sample flow controllable between 0.1 and 5.0 l/min or 0.2 and 10 SCFH)).
- QC4 female self sealing analyser connections.
- Approx 10 minutes individual test time (assuming a sample flow rate of 2 l/min or)

Transfer System:

- Quality hard wearing discharge pump (Maximum discharge pressure 12 barg/175 PSIG).
- Large internal collection vessel of up to 20 litres.
- Easy and quick operation.

Power Supply:

- Typical battery life of 9 fill/discharge cycles at 7 barg from a fully charged battery. (or 7 cycles at 9.5 barg).
- Powerful 24VDC from internal rechargeable batteries.
- Battery charger has a variable voltage acceptance (98v – 240v).
- Auto-adjust to source voltage when charging.
- Easy to read battery indicator panel.
- Charger included with RED = "On charge" and GREEN = "Charged" indicator.

Transportation Case:

- Waterproof with full foam lid seal. IP67 rating.
- Fully integrated protection system.
- Manufactured from a unique patterned high performance resin.
- Hard wearing, comfortable and soft non-slip grip handles side and top.
- Retractable soft non-slip grip pull along handle and tough quality urethane wheels.
- Pressure vents for air transportation.

Dimensions:

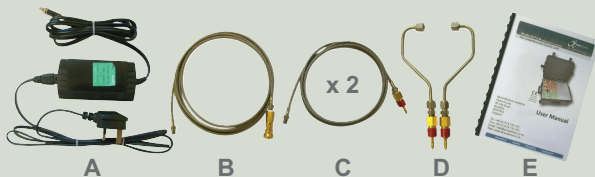
- 625 x 500 x 297mm (24.6" x 19.7" x 11.6").

Weight:

- 25kg (55lb).

Accessories Included

- A) 1 x Battery/Cell Charger GCTU**
- B) 1 x 3 meter high quality stainless steel braided PTFE lined inlet connection hose with quality female stainless quick connect fitting and 1/8" NPT connection fitting.**
- C) 2 x 2 meter high quality stainless steel braided PTFE lined inlet/outlet connection hoses with quality male brass quick connect fittings and 1/4" NPT connection fittings.**
- D) 2 x SADPmini stainless steel connection pipes with OCR fittings and male quick connect fittings**.**
- E) 1 x Comprehensive operating instruction manual with step-by-step guide.**

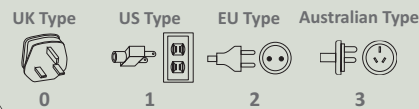


How to Order - Step 1 of 1

Order Part Number GCTU-B + [X]

X = Choose plug adapter for your country

0 = UK 1 = US Type
2 = EU Type 3 = Australian Type



Related Products

Model SADPmini2

Hand Held Dewpoint Hygrometer



Model GCTU-M

Mains/AC Operated



* Assuming the use of Alpha Moisture Systems SADPmini2 and is ready to take measurements, the sample line connection is ready to connect and the GCTU is fully charged.
** Supplied when ordering for use with Model SADPmini or SADPmini-Ex, or SADPmini2 and SADPmini2-Ex.

1714 Model GCTU-B pd210222 -ISS-6

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