

**Replacement Parts for 50-12-1 (or 2)
and Options
for Battery Kits**

- S-12V-01 Battery:** Sealed 12V Battery replacement
- 50-C-S Cable:** For signal output, 6 feet long
- S-12V-02 Fuse:** Replacement fuse - protects from short circuit.
- 80-PS-08 Power Adapter:** USA 120 VAC to 12VDC plug-in charger adapter.
- 80-PS-18 Power Adapter:** European 230 VAC to 12VDC plug-in charger adapter.

McMillan **C.O.M.P.A.N.Y**

**MANUFACTURERS OF AFFORDABLE
FLOW SENSORS, METERS & CONTROLLERS**

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OPERATING MANUAL

Model 50-12-1 for 120VAC (and 2 for 230VAC)

12 Volt Battery pack with charger

User operating information:

FIRST - always charge the battery for 12 hours before use.

Plug the round DC Power plug into the battery cable mating plug - and plug the Charger adapter into 120 VAC (or 230 VAC for European models)

WHAT CAN BE POWERED with THIS BATTERY KIT ?

McMillan Company 12 Volt Mass flow sensors and Flowmeters such as: Model 50 (with "K" connector) , also Model 50D and other similar products.

SAFETY PRECAUTIONS: Never operate or charge the battery at high temperatures (above 50 degrees C). Never expose or discard into a fire. If battery is ever broken - do not touch contents - wash skin immediately with water if any contents may touch skin or clothing. Do not short battery. A safety fuse is provided for protection to + battery terminal.

Typical Run & Charging Times :

Time to charge is longer IF flow sensor (or flowmeter) is attached to its cable while charging is being done.

Full charge time without operating sensors & meters is generally 8 to 12 hours.

Longer charge times if operating devices also.

Run time is generally 10 to 12 hours per charge for Model 50 and typically 8 to 10 hours per charge for Model 50D.

Approximately 500 Full Charge cycles is typical.

Battery Life Considerations :

It is best to use and store battery at normal room temperatures. Always charge the battery before storage. Recharge fully at least every 6 months.

It is good to fully discharge and charge the battery every 1 - 2 months when in normal use (discharge by leaving the flow measuring device attached without the charger attached for 24 hours, then charge fully by connecting the charger without the flow sensor or meter and charge for 24 hours. Long term use while recharging will not harm the battery - periodically discharge and full charge per above.

How to Make Connections:

Connect the longest cable with 6 Pin connector to your flow sensor (or flow meter) - note correct orientation. The flow measuring device is now ready to use (after warm-up) and is being powered from the battery. When charging is required, plug the charger plug to the cable near the battery into its mating receptacle and charge for 8 - 12 hours (longer if you continue to also supply power to the flow measuring device).

An optional signal output cable is needed (Part Number 50-C-S) if it is necessary to attach to a recorder. Use the center wire from this cable as the 0-5 volts D.C. signal output and the outer shield wire for signal output neutral. Be careful never to short these wires to any other battery connectors or wiring or to each other - keep leads covered at all times. Store all cables inside the case when not in use. The signal output connector is located near the battery charger connector - fits to optional cable 50-C-S.

Guarantees: If at any time within 1 year of shipment, but not thereafter if it is proved that any part of the equipment furnished by us was defective when shipped by us, we will replace or repair the same free of charge, F.O.B. our plant. Notice of this claim must be made within 1 year after shipment. Our liability is limited to replacement of such defective parts or equipment. There are no guarantees or warranty expressed or implied other than those herein specifically mentioned. We are not responsible for any consequential damages, secondary charges, expenses for erection or disconnecting, or losses resulting from any alleged defect in the apparatus. Any damage due to misuse or mis-handling is not covered by this guarantee.