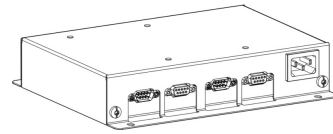




73502 Smart Hub
Module



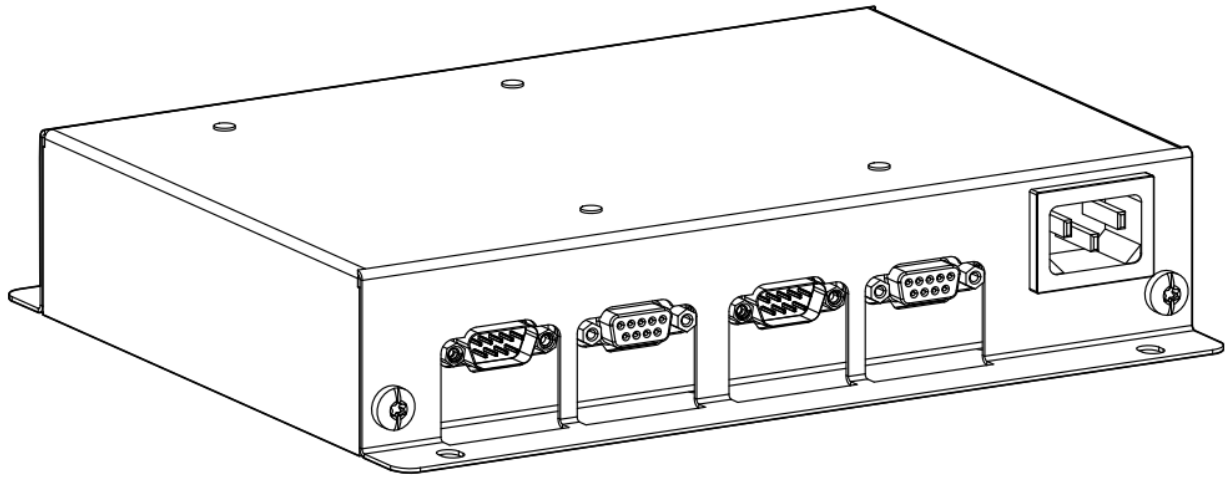
GYS 73502 Smart Hub Module Instruction Manual

[Home](#) » [GYS](#) » GYS 73502 Smart Hub Module Instruction Manual 

Contents

- 1 GYS 73502 Smart Hub Module
- 2 Product Information
- 3 Product Usage Instructions
- 4 FAQ
- 5 SAFETY INSTRUCTIONS
- 6 PRODUCT OVERVIEW
- 7 CHANNEL NUMBERS
- 8 MULTI-MODULE CONFIGURATION
- 9 MULTI-CHARGER CONFIGURATION- PARALLELIZATION (PARALLEL)
 - 9.1 Set up
- 10 MULTI-CHARGER CONFIGURATION – EQUALIZATION (EQUALIZE)
 - 10.1 Set up
- 11 TROUBLESHOOTING
- 12 FIXING
- 13 WARRANTY
- 14 SPARE PARTS
- 15 TECHNICAL SPECIFICATIONS
- 16 SYMBOLS
- 17 ABOUT COMPANY
- 18 Documents / Resources
 - 18.1 References
- 19 Related Posts





Product Information

Specifications:

- **Product Name:** SMART HUB MODULE
- **Model Number:** 73502 V1
- **Date:** 23/01/2024
- **Manufacturer Website:** www.gys.fr

Product Usage Instructions

Installation:

To install the SMART HUB MODULE, follow these steps:

1. Connect a GYSFLASH CNT charger to channel 1 using the supplied SMC cable.
2. Ensure the device is connected to a single-phase 230 V (50 – 60 Hz) three-wire electrical installation with an earth.
3. If using in a Multi-Charger configuration, connect the module to the same channel as a Gysflash without connecting the mains lead.
4. Verify that the LED corresponding to the module's channel is illuminated to confirm activation.

Usage:

To use the SMART HUB MODULE, follow these guidelines:

- The module must be connected to a Gysflash on the same channel to draw power.
- For Multi-Charger configuration, no mains lead connection is required for the SHM device.

Maintenance:

For maintenance, ensure that the machine is connected to an earthed socket and follow the manufacturer's maintenance instructions provided in the manual.

FAQ

- **How many modules can be connected to a single Gysflash CNT charger using the SHM device?**

The Smart Hub Module allows a maximum of 4 modules to be connected to a single Gysflash CNT charger.

- **What should I do if I encounter error codes like Err27, Err28, Err31, or Err32?**

Refer to the troubleshooting section in the manual for specific error code details and recommended actions to resolve them.

SAFETY INSTRUCTIONS

- This user manual includes operation instructions, and the safety precautions to be followed by the user. Please read it carefully before first use and keep it for future reference. These instructions must be read and fully understood before use. Do not carry out any alterations or maintenance work that is not directly specified in this manual. The manufacturer shall not be liable for any damage to persons or property resulting from use not in accordance with the instructions in this manual. If you have any problems or queries, please consult a qualified person to correctly operate the equipment. This device may only be used for ticket printing and/or data transmission within the limits indicated on the device and manual. The safety instructions must be followed. The manufacturer cannot be held responsible in the event of improper or dangerous use.
- The device is designed to be used indoors. Must not be exposed to the rain.
- Do not use the charger if the mains cable or plug is damaged.
- Do not place the unit near a heat source, direct sunlight or continuously high temperatures (above 50 °C).
- This machine must be connected to an earthed socket.

Maintenance

- Maintenance should only be carried out by a qualified person.
- Warning! Always disconnect from the mains before carrying out maintenance on this machine.
- Never use solvents or other aggressive cleaning agents.
- Clean the surfaces of the unit with a dry cloth.

Regulations:

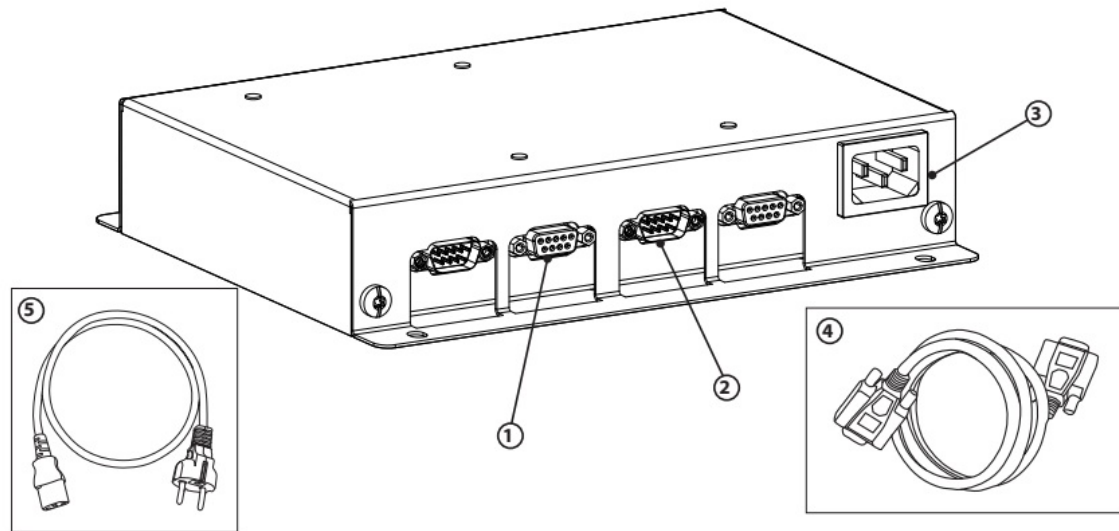
- Equipment complies with European directives
- The Declaration of Conformity is available on our website.
- The Eurasian Economic Community (EAEC) mark of conformity.
- This equipment conforms to UK requirements.
- The UK Declaration of Conformity is available on our website (see cover page).
- This device complies with Moroccan standards.
- The C μ (CMIM) declaration of conformity is available on our website.

Disposal:

This machine is subject to selective collection. Do not dispose of in domestic waste.

PRODUCT OVERVIEW

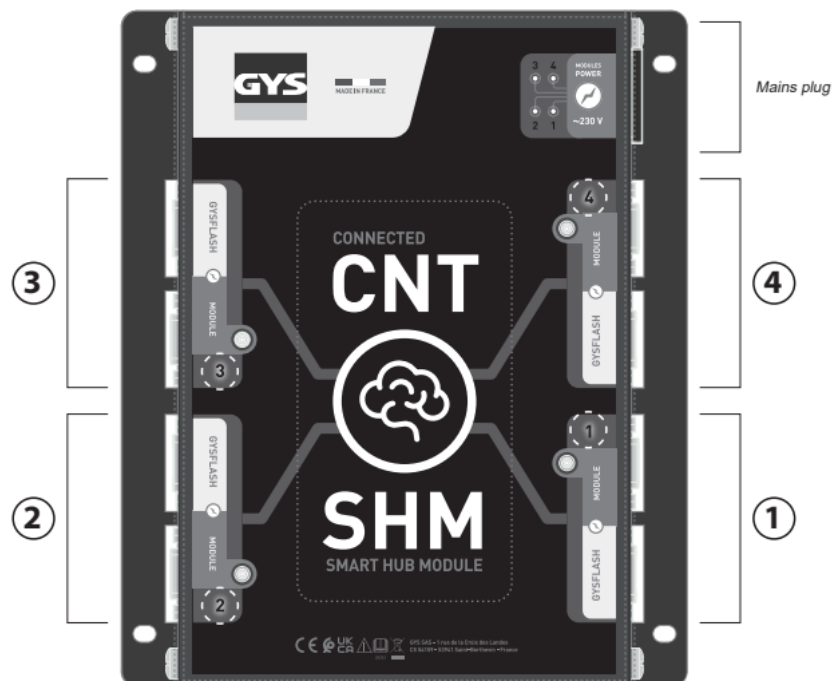
FIG I



1. SMC output for CNT Module (x4)
2. SMC input for GYSFLASH CNT (x4)
3. 230 Vac power cable socket
4. SMC cord
5. Power supply cable

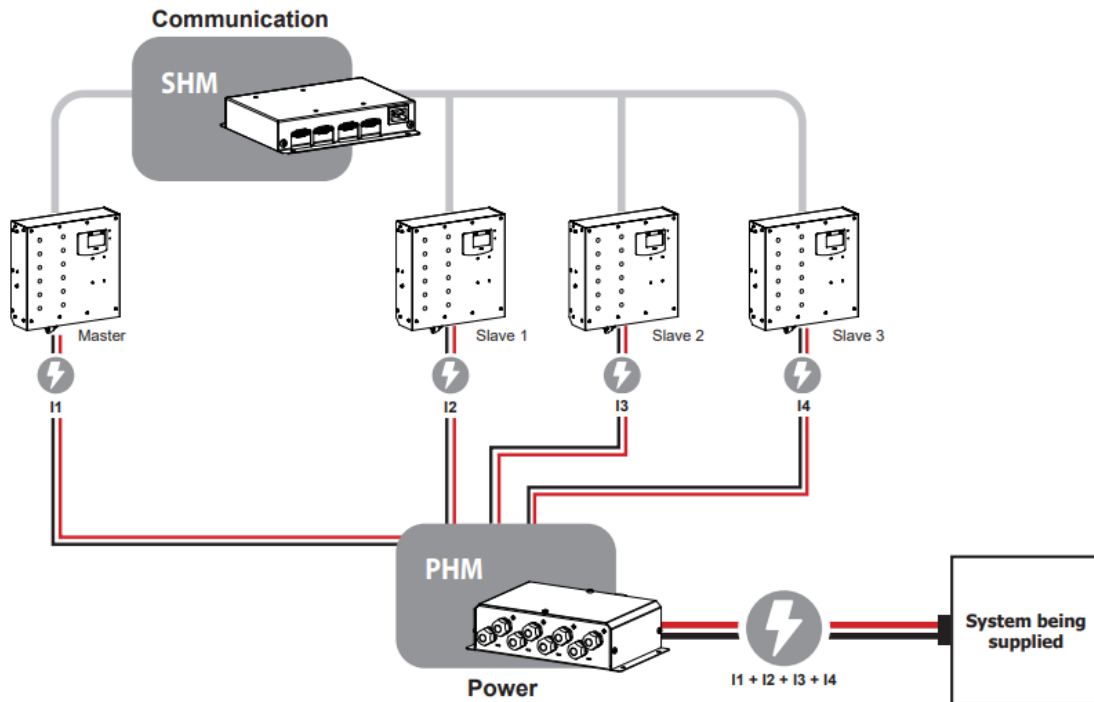
CHANNEL NUMBERS

FIG II - CHANNEL NUMBERS



MULTI-MODULE CONFIGURATION

The Smart Hub Module (SHM) is an accessory that allows several modules (maximum 4) to be connected to a single Gysflash CNT charger.

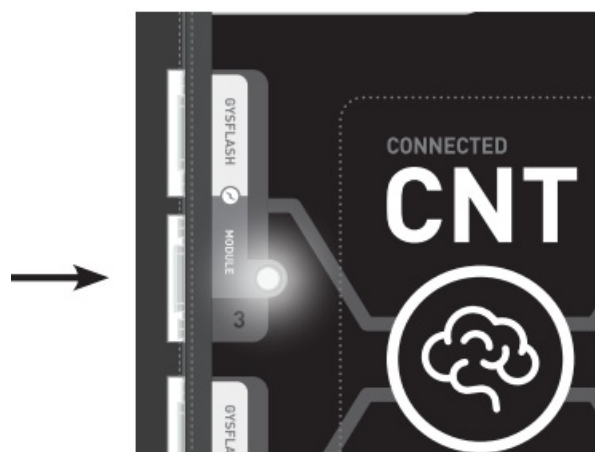


Set up

For the SHM device to work, a GYSFLASH CNT charger must be connected to channel 1 (FIG II) via the SMC cable supplied.

Can be used with or without power cable

- This device is supplied with a 16 A CEE7/7 plug and must only be used in a single-phase 230 V (50 – 60 Hz) three-wire electrical installation that includes an earth.
- If there are as many (or more) chargers as there are modules connected to the SHM, then a mains supply is not required. Each Gysflash can supply power to the module connected to its respective channel.
- To draw power from a charger, the module must be connected to the same channel as a Gysflash.
- In Multi-Charger configuration, it is not necessary to connect the SHM mains lead.
- If there are more modules than chargers connected to the SHM, it is necessary to connect the SHM's mains cable in order to activate all the channels.
- To check that the channel corresponding to a module is activated, confirm that the associated LED is lit.

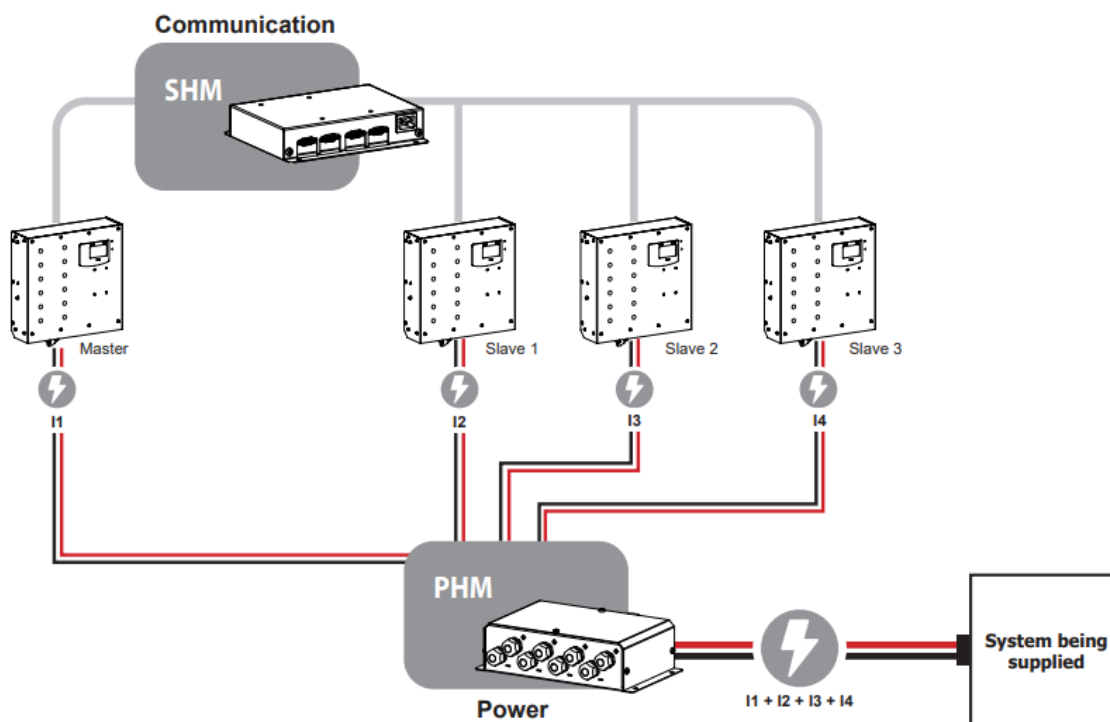


Usage

1. Make sure that the Gysflash and the modules are properly connected to the SHM (see Installation section above).
2. Switch on the Gysflash and, if necessary, connect the SHM to the mains power.
3. Make sure that the LEDs corresponding to the different modules are illuminated.
4. The Gysflash is now ready to be used in conjunction with the attached modules.

MULTI-CHARGER CONFIGURATION- PARALLELIZATION (PARALLEL)

When identical Gysflash CNT chargers are connected in parallel, the SHM handles communication between them in order to become an ultra-powerful charging system.



To use this function, the SHM must be combined with a Power Hub Module (PHM – ref. 056589) to manage the power.

Paralleling can only be done with identical GYSFLASH CNT units (maximum 4).

Master/Slave communication:

Gysflash CNT chargers are installed in parallel using a Master/Slave configuration. One Gysflash (the Master) controls all the others (the Slaves).

Set up

1. Connecting the Gysflash to the SHM:

- Connect the Gysflash units you wish to run in parallel to a channel on the SHM. The Master Gysflash must be connected to channel 1 (FIG II).
- The Slave Gysflashes units can be connected to channels 2 , 3 , or 4 (FIG II).

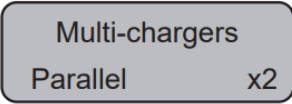
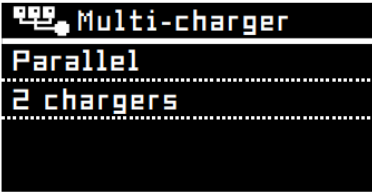
Make sure that the Gysflash output cables are properly interconnected via the PHM. For more detail, refer to the PHM manual.

For Gysflash units manufactured before January 2024 (serial number less than 24.01.xxxxxx. xxxxxx), please refer to the «SHM supplementary leaflet» available on the website www.gys.fr for more details on

the specific installation requirements for this version of charger.

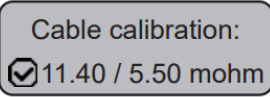
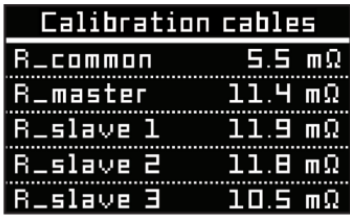
2. Gysflash configuration:

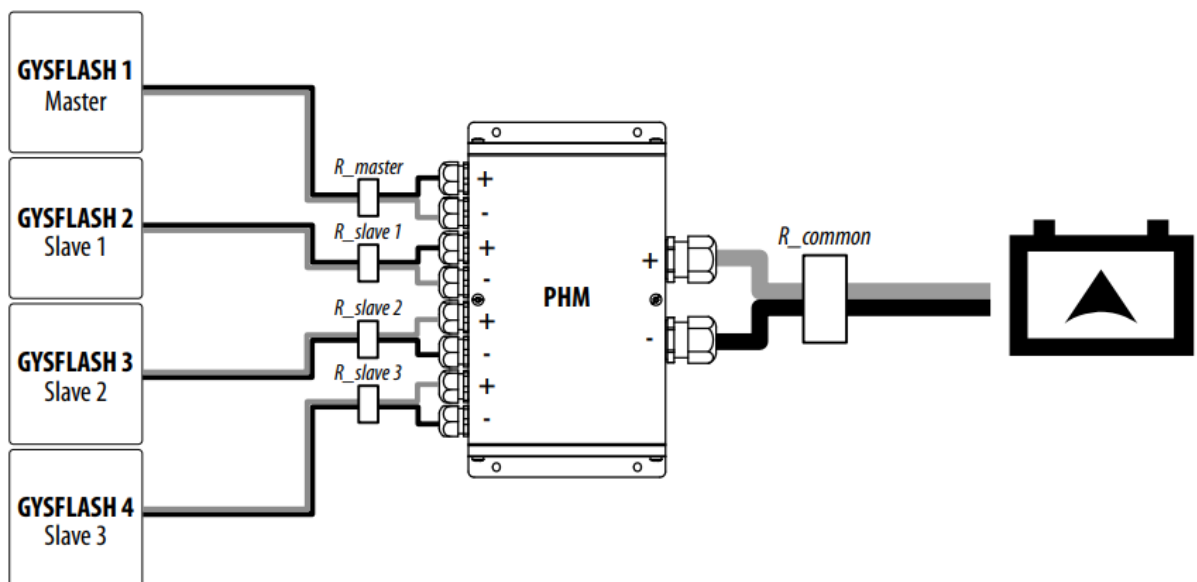
Turn on all the Gysflash units. For each Gysflash, open the Multi-charger menu (see Gysflash manual) and select the appropriate configuration:

LCD	OLED	
		For each charger, select «Parallel», as well as the number of chargers you wish to use in parallel.

3. Cable calibration

- On the Gysflash Master interface, go to the Cable calibration menu (see Gysflash manual).
- Cables can be calibrated either automatically (recommended) or manually (OLED screen only).
- This procedure is used to calibrate the charging cables of the unit, so that the Gysflash can compensate effectively for any drop in voltage caused by the cables.

LCD	OLED	
		<p>- <i>Automatic calibration (recommended)</i> To do the calibration, simply short-circuit the PHM output clamps and then confirm. The device automatically calculates the cable resistance, and displays the different resistance values for each component of the installation on the screen.</p> <p>- <i>Manual calibration (not recommended)</i> The resistance values of the cables can be set manually.</p>

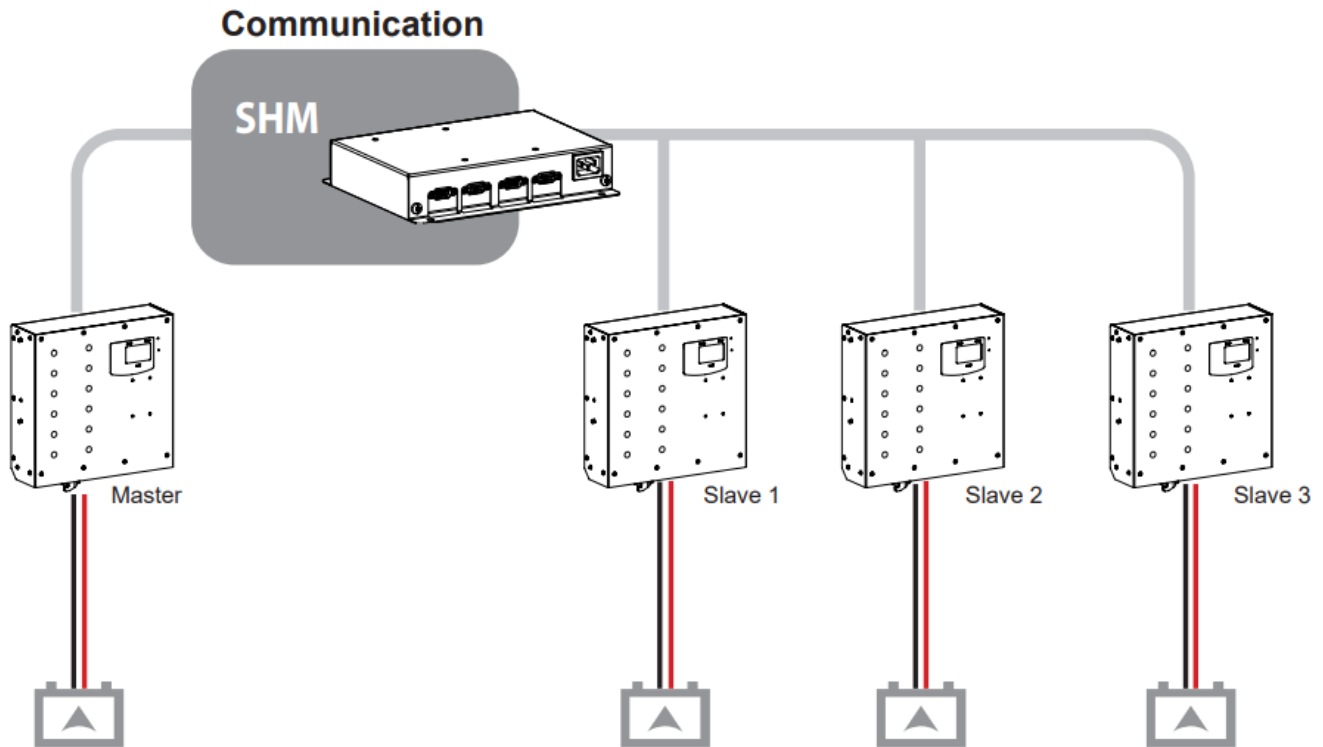


Usage

1. Switch on all Gysflash units
2. Check that the Gysflash units are correctly connected to the SHM and PHM (Installation section).
3. Use the Gysflash Master interface to control the multi-charger.

MULTI-CHARGER CONFIGURATION – EQUALIZATION (EQUALIZE)

The SHM manages communication between Gysflash CNT chargers, so that battery charge levels can be equalised.



Equalisation can only be carried out with identical Gysflash CNTs (maximum of 4).

Master/Slave communication:

Battery equalisation is performed using Gysflash CNT chargers in a Master/Slave configuration. One Gysflash (the Master) controls all the others (the Slaves).

Set up

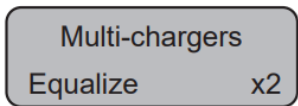
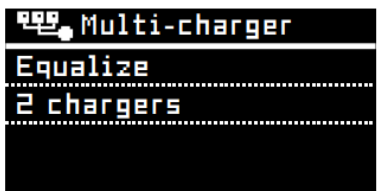
1. Connecting the Gysflash to the SHM:

- Connect each Gysflash to a channel on the SHM.
- The Master Gysflash must be connected to channel 1 (FIG II).
- The Slave Gysflash units can be connected to channels 2 , 3 , or 4 (FIG II).

For Gysflash units manufactured before January 2024 (serial number less than 24.01.xxxxxx. xxxxxx), please refer to the «SHM supplementary leaflet» available on the website www.gys.fr for more details on the specific installation requirements for this version of charger.

2. Gysflash configuration:

Turn on all the Gysflash units. For each Gysflash, open the Multi-charger menu (see Gysflash manual) and select the appropriate configuration:

LCD	OLED	
		For each charger, select «Equalize», as well as the number of chargers you want to equalise.

Usage

1. Switch on all Gysflash units
2. Check that the Gysflash units are correctly connected to the SHM (see Installation section).
3. Use the Gysflash Master interface to control the multi-charger.

To ensure optimal equalisation, we recommend connecting the clamps of each charger directly to the terminals of each battery (without any intermediary cables).

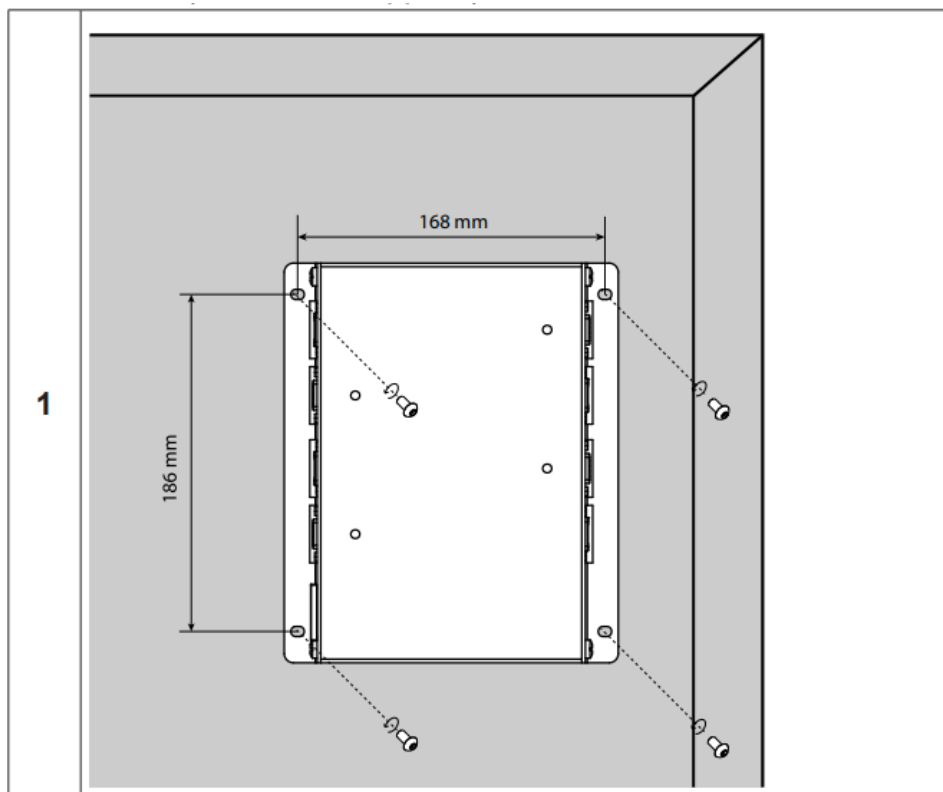
TROUBLESHOOTING

Err27: Cable_NOK	Multi-charger mode: Parallel connection of charging cables failed	Charging cables to be replaced.
		Poor connection, check assembly (PHM).
Err28 : COM_NOK	Multi-charger mode: Communication failure between chargers	No communication, check SHM assembly and SLAVE X charger configuration.
		Replace DB9 cable(s).
Err31 : COM_NOK	Multi-charger mode: Gysflash connected on the wrong SHM channel	Check that the Master Gysflash is installed on channel 1 of the SHM, and that the Slave Gysflashes are installed on the other channels.
		To revert back to single-charger operation, press the START/STOP button, enter the administrator code, and select OFF for the Multi-charger function.
Err32 : Unbalanced	Equalize mode: Unbalanced batteries	Ensure that none of the batteries are faulty.

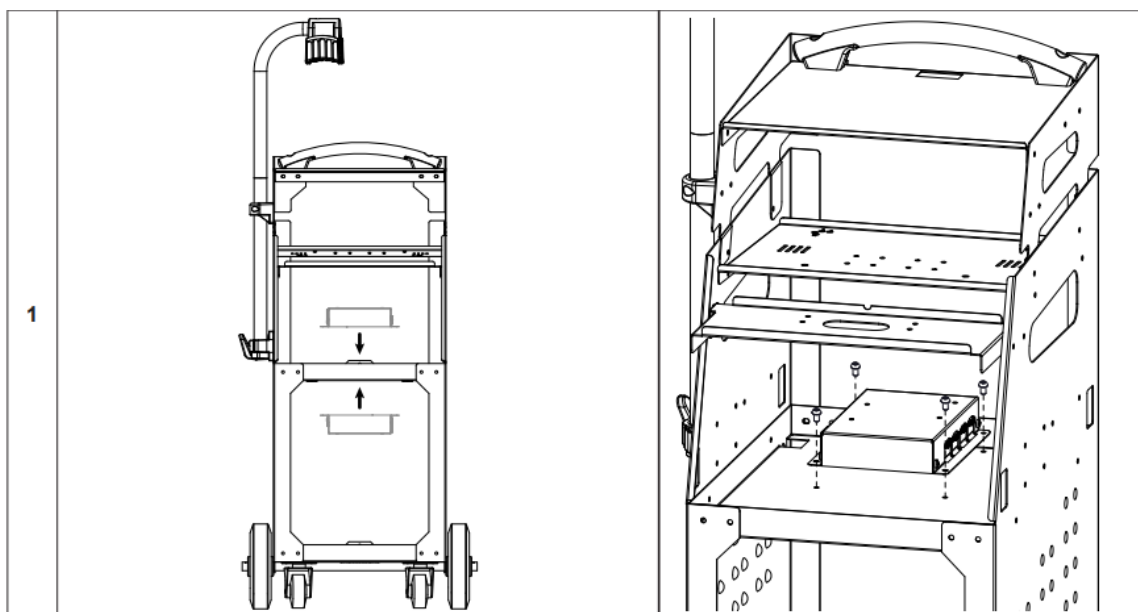
FIXING

There are two mounting options:

- to the wall (screws not supplied)



- on the Gysflash XL-ND trolley – ref. 028890 (use the screws supplied with the trolley).

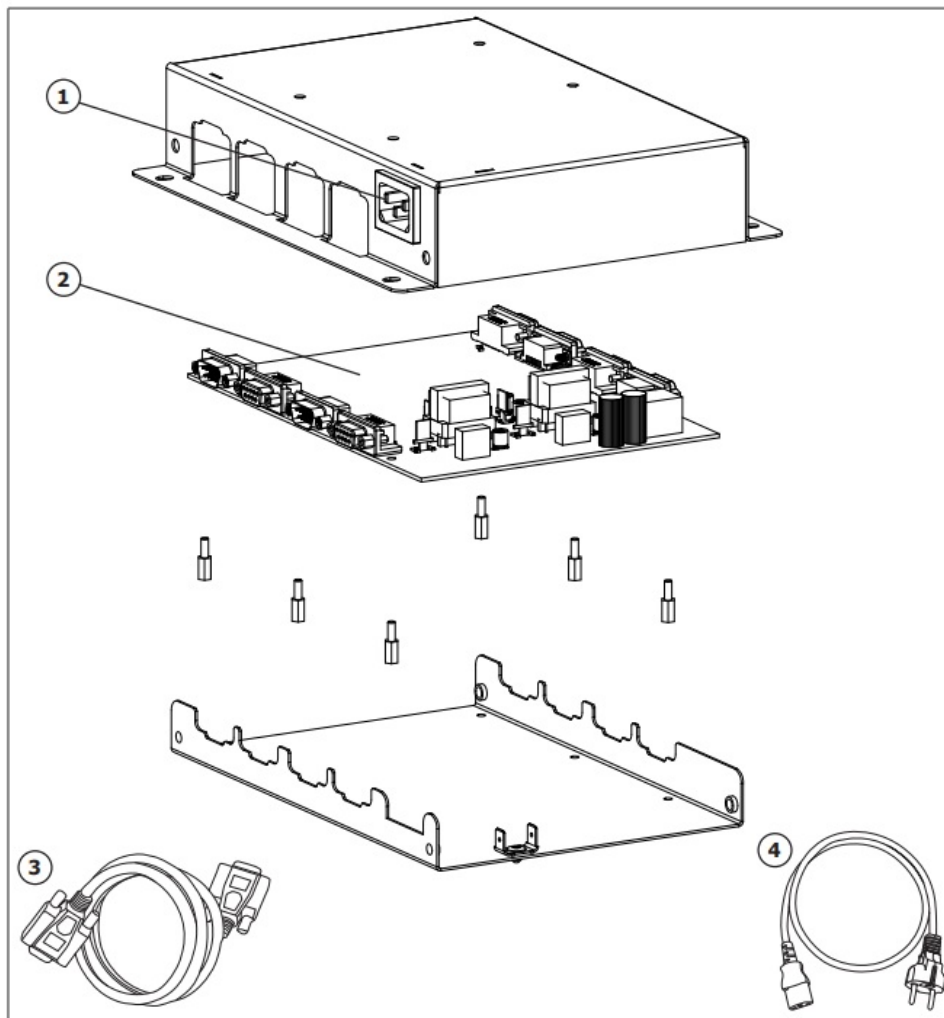


WARRANTY

- The warranty covers all defects or manufacturing faults for a period of two years starting from the date of purchase (parts and labour).
- The warranty does not cover:
 - Any other damage caused during transport.
 - The general wear and tear of parts (i.e. : cables, clamps, etc.).
 - Incidents caused by misuse (incorrect power supply, dropping or dismantling).
 - Environment-related faults (such as pollution, rust and dust).
- In the event of a breakdown, please return the item to your distributor, along with:
 - a dated proof of purchase (receipt or invoice etc.).

- a note explaining the malfunction.

SPARE PARTS








1. **Mains terminal block 52431**
2. **Circuit board E0061C**
3. **SMC connection cable 70988**
4. **IEC C13 mains power cord IEC C13**

TECHNICAL SPECIFICATIONS

- **Reference SMART HUB MODULE**
- **Rated insulation voltage (U_i)** 250 VRMS
- **Rated impulse withstand voltage (U_{imp})** 2.5 kV
- **Protection rating** IP40
- **Weight (load cables not included)** 1,07 kg
- **Dimensions (L x H x D)** 220 x 180 x 45 mm
- **Standards**
 - EN 60335-1
 - CEI EN 60529 (IP)
 - EN 55014-1 (CEM)

- EN 55014-2 (CEM)
- EN 55058-1 (RoHS)

SYMBOLS

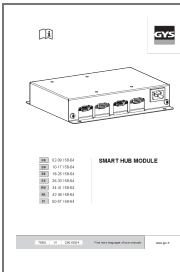
	FR Matériel conforme aux Directives européennes. La déclaration UE de conformité est disponible sur notre site (voir à la page de couverture). EN Device complies with Europeans directives, The EU declaration of conformity is available on our website (see cover page). DE Das Gerät entspricht den europäischen Richtlinien. Die EU-Konformitätserklärung finden Sie auf unserer Webseite (siehe Titelseite). ES Material conforme a las Directivas europeas. La declaración de conformidad de la UE está disponible en nuestra web (dirección en la primera página). RU Устройство соответствует директивам Евросоюза. Декларация ЕС о соответствии доступна для просмотра на нашем сайте (ссылка на обложке). NL Het apparaat is in overeenstemming met de Europese richtlijnen. Het EU certificaat van overeenstemming kunt u vinden op onze website (zie omslag van deze handleiding). IT Dispositivo conforme alle direttive europee. La dichiarazione UE di conformità è disponibile sul nostro sito internet (vedere la pagina di copertina).
	FR Matériel conforme aux exigences britanniques. La déclaration de conformité britannique est disponible sur notre site (voir à la page de couverture). EN Equipment in compliance with British requirements. The British Declaration of Conformity is available on our website (see home page). DE Das Gerät entspricht den britischen Richtlinien und Normen. Die britische Konformitätserklärung finden Sie auf unserer Webseite (siehe Titelseite). ES Material conforme a las exigencias británicas. La declaración de conformidad británica esta disponible en nuestra web (dirección en la portada). RU Материал соответствует требованиям Великобритании. Заявление о соответствии для Великобритании доступно на нашем веб-сайте (см. главную страницу). NL Dit materiaal beantwoordt aan de Britse eisen. Het Britse certificaat van overeenstemming kunt u downloaden vanaf onze internet site (zie omslag van deze handleiding). IT Materiale conforme alle esigenze britanniche. La dichiarazione di conformità britannica è disponibile sul nostro sito internet (vedere la pagina di copertina).
	FR Matériel conforme aux normes Marocaines. La déclaration C _M (CMIM) de conformité est disponible sur notre site (voir à la page de couverture). EN Equipment in conformity with Moroccan standards. The declaration C _M (CMIM) of conformity is available on our website (see cover page). DE Das Gerät entspricht den marokkanischen Richtlinien. Die Konformitätserklärung C _M (CMIM) finden Sie auf unserer Webseite (siehe Titelseite). ES Material conforme a las normas Marroquíes. La declaración C _M (CMIM) de conformidad esta disponible en nuestra web (dirección en la portada). RU Соответствуют Марокканским нормам. Декларация C _M (CMIM) о соответствии доступна для просмотра на нашем сайте (ссылка на обложке). NL Dit materiaal is in overeenstemming met de Marokkaanse normen. De verklaring van overeenstemming C _M (CMIM) kunt u downloaden vanaf onze internetsite (zie de omslag van deze handleiding). IT Materiale conforme alle norme Marocchine. La dichiarazione C _M (CMIM) di conformità è disponibile sul nostro sito (vedere la pagina di copertina).
	FR Ce matériel faisant l'objet d'une collecte sélective selon la directive européenne 2012/19/UE. Ne pas jeter dans une poubelle domestique ! EN This hardware is subject to waste collection according to the European directives 2012/19/EU. Do not throw out in a domestic bin ! DE Dieses Gerät muss gemäß der EU-Richtlinie 2012/19/EU getrennt entsorgt werden. Nicht mit dem Hausmüll entsorgen! ES Este material requiere una recogida de basuras selectiva según la directiva europea 2012/19/UE. ¡No tirar este producto a la basura doméstica! RU Это оборудование подлежит переработке согласно директиве Евросоюза 2012/19/ЕС Не выбрасывать в общий мусоросборник у себя дома! NL Dit materiaal maakt deel uit van een gericht inzamelingsbeleid volgens de Europese richtlijn 2012/19/EU. Niet weggooien met het huishoudelijk afval ! IT Questo dispositivo è oggetto di raccolta differenziata secondo la direttiva europea 2012/19/UE. Non smaltire con i rifiuti domestici.
	FR Produit recyclable qui relève d'une consigne de tri. EN This product should be recycled appropriately DE Recycelbares Produkt, das unter eine Sortieranweisung fällt. ES Producto reciclable que requiere una separación determinada. RU Этот продукт подлежит утилизации. NL Dit apparaat kan gerecycled worden. Afzonderlijke inzameling vereist. IT Prodotto riciclabile soggetto a raccolta differenziata.

ABOUT COMPANY

GYS UK

- Filiale / Subsidiary
- Unit 3
- Great Central Way
- CV21 3XH – Rugby – Warwickshire
- United Kingdom
- www.gys-welding.com
- +44 1926 338 609
- uk@gys.fr

Documents / Resources



[GYS 73502 Smart Hub Module](#) [pdf] Instruction Manual
73502, 73502 Smart Hub Module, Smart Hub Module, Hub Module, Module

References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.