

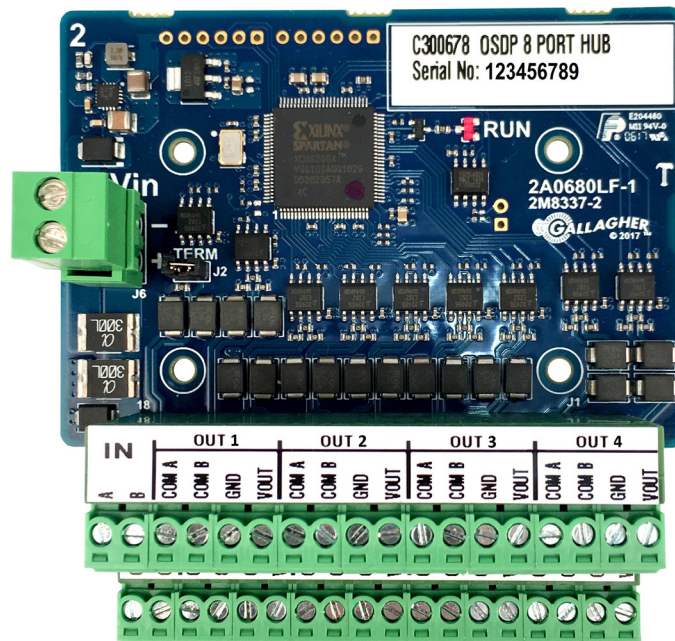


Gallagher

OSDP 8 Port Hub

Installation Note

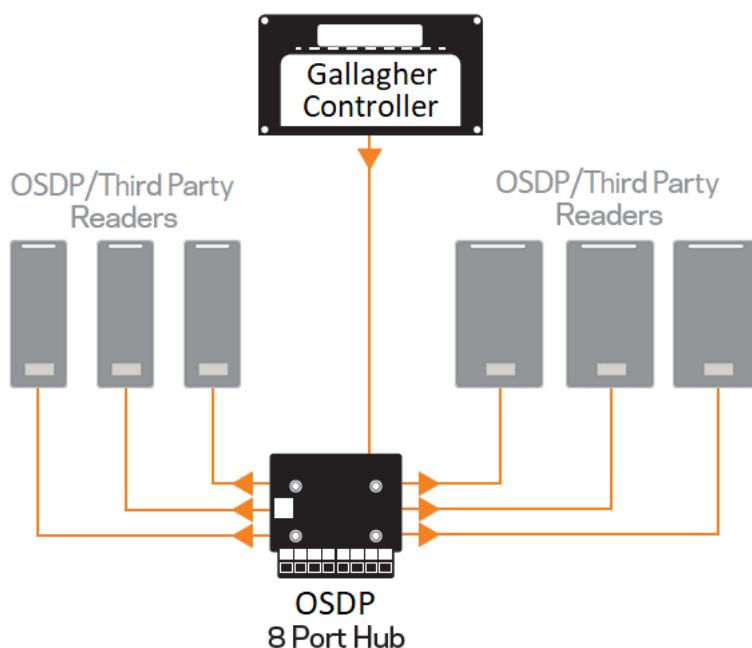
Gallagher OSDP 8 Port Hub: C300678



Introduction

The Gallagher OSDP 8 Port Hub offers installers a convenient solution for reusing existing wiring on site, allowing combinations of star-home run and daisy chain wiring to be used when connecting OSDP support devices back to a Gallagher Controller. With this device, installers can connect and wire up to 8 OSDP readers from a single RS485 port on the Gallagher Controller. It utilises a FPGA (field programmable gate array) to allow for the star wiring of devices. The OSDP 8 Port Hub is not a monitored device and therefore is transparent to the Controller.

Warning: To prevent damage to devices, it is crucial to correctly wire all devices into the OSDP 8 Port Hub. Ensure proper connections for power (GND & VOUT) and communication (COM A & COM B) ports. Incorrectly connecting these ports may result in permanent damage to non-Gallagher devices lacking voltage protection.



Before you begin

Power Supply

The Gallagher OSDP 8 Port Hub requires a 13.6 Vdc power supply. This is connected through the 2-pin connector labelled Vin. The 2 pins are labelled - and +. The terminals VOUT and GND provide a voltage output suitable for device connections, rated at 4A total from all outputs.

Cabling

The OSDP 8 Port Hub requires a maximum cable length of 5 meters between the hub and the Gallagher controller. It's important to note that OSDP hubs cannot be interconnected to extend the cable length.

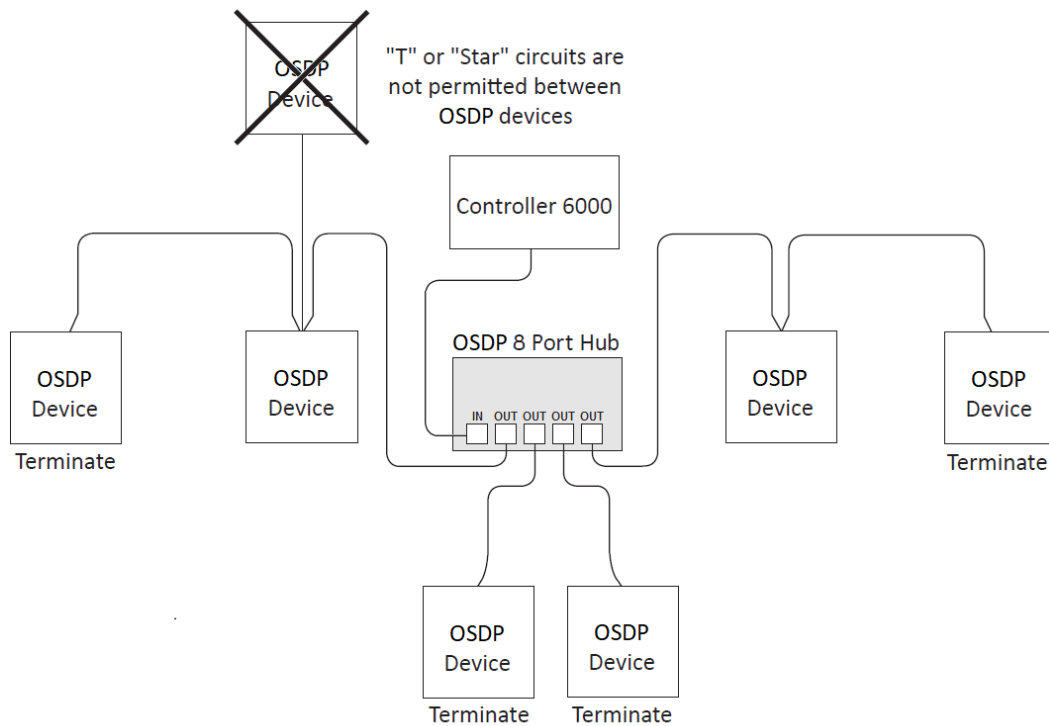
The end devices on the RS485 cable should be terminated using 120 Ω resistance. Termination is already included at the OSDP Out Ports, (i.e. each OSDP Out Port is permanently terminated at the Hub). The OSDP In Port has an optional termination jumper J2 TERM. Whether this jumper is used or not should be based on the OSDP In Port to Controller wiring.

Connections

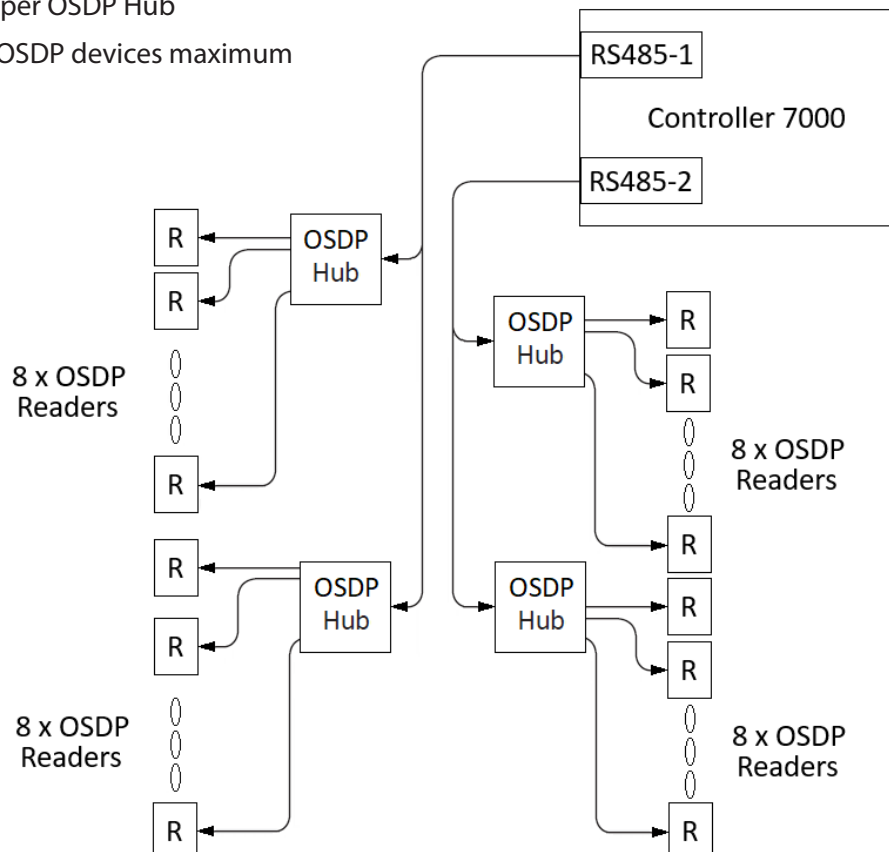
The OSDP 8 Port Hub is only compatible with Gallagher Controllers (e.g., Controller 6000 or Controller 7000 range) and a maximum of 2 x OSDP Hubs per controller RS485 port.

Notes:

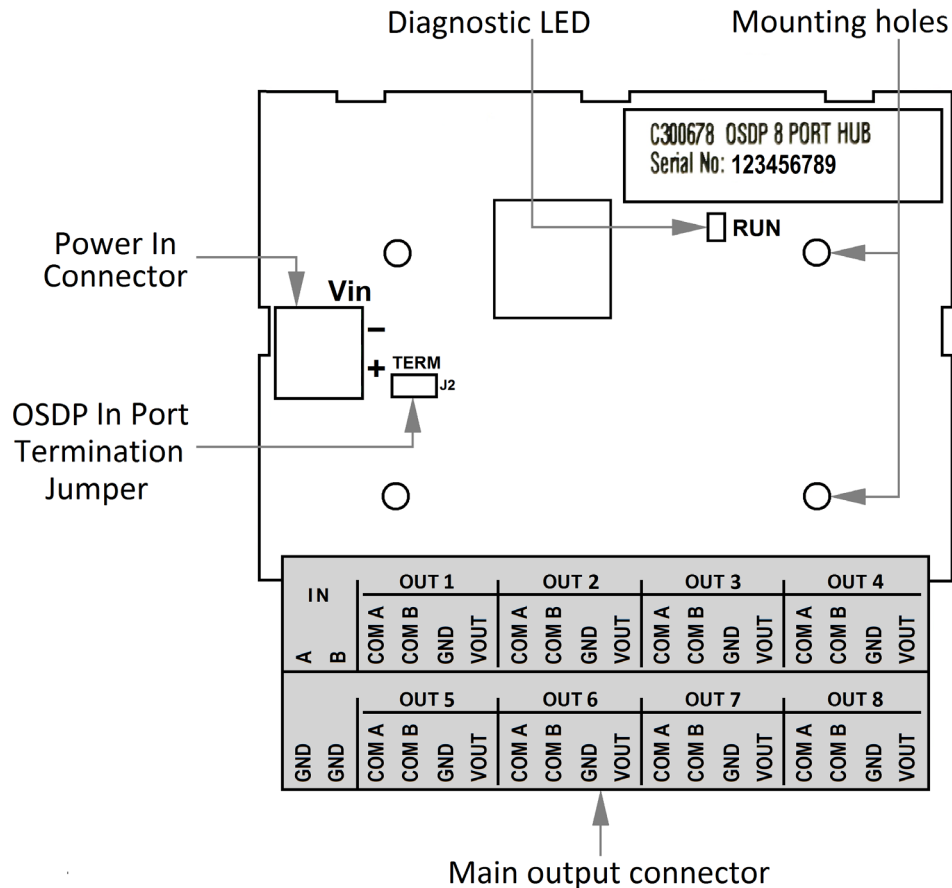
- Run a common ground (-ve) from the OSDP 8 Port Hub for all OSDP supported devices.
- The Controller must connect to the In port.
- The wiring from the Controller RS485 Port to the OSDP Hub should be 5 meters or less.

**Multiple 8 Port Hub recommended installation**

- 2 x OSDP Hubs per RS 485 controller port
- 8 x readers per OSDP Hub
- Total of 32 OSDP devices maximum



Component layout



OSDP device limits

It is recommended that the OSDP 8 Port Hub have a maximum of 8x OSDP devices connected (one per Out port) as per the recommended installation diagram above Cabling.

LED Flash Patterns

- The diagnostic LED is labelled "RUN" on the OSDP 8 Port Hub
- Slow pulse (1.4 seconds on, 1.4 seconds off) indicates that it is functioning normally
- Rapid flash (3Hz) indicates a connected device is not operating correctly and has been disabled to reduce interference with other devices.

Set Correct Baud Rate

All devices must be configured to the same baud rate, there is no baud rate conversion within the Hub. If a connected device has a different baud rate, it will impact the responsiveness of all devices connected to the hub. The baud rate is detected from the Controller port (In port) only.

Supported baud rates:

- 9600
- 19200
- 38400
- 115200

Installation



ATTENTION: This equipment contains components that can be damaged by electrostatic discharge. Ensure both you and the equipment are earthed before beginning any servicing.

The Gallagher OSDP 8 Port Hub can be mounted in a Gallagher Starter Kit Cabinet (C300120), Gallagher Cabinet (C200100) or Gallagher Dual Cabinet (C200104 or C200105).

Notes:

- The OSDP Hub should be located within an enclosure that has Tamper Detection.
 - The wiring from the Controller RS485 Port to the OSDP Hub should be 5 meters or less.
 - The Power for the OSDP Hub should be provided from a fused source, and sufficient to supply the 8 outgoing Power Connections.
1. Refer to the appropriate Gallagher Cabinet installation note below for details regarding the procedures involved when mounting the Gallagher Cabinet:
 - Gallagher Starter Kit Cabinet Installation Note (3E3723)
 - Gallagher Two Door Controller Cabinet Installation Note (3E3721)
 - Gallagher Cabinet Installation Note (3C4513)
 - Gallagher Dual Cabinet Installation Note (3E0694)
 2. Install a Gallagher Mounting Plate (C200001, C200002 or C200003) directly into the cabinet.
 3. Using the 4 pan pozi screws supplied, fit the OSDP 8 Port Hub to the installed Gallagher Mounting Plate.
 4. Connect the RS485 IN/OUT, inputs and outputs as detailed in the topic "Connections" earlier in this note.

Command Centre configuration

There is no Command Centre Configuration for the OSDP 8 Port Hub, if inserted into the wiring it is invisible to the Controller and to the OSDP devices connected.

Readers connected to the OSDP Hub must be UL 294/ UL 2610 Listed. UL verified HID model RP10E is compatible with this product via OSDP.

Approvals and standards

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: Changes or modifications not expressly approved by Gallagher Limited could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RoHS COMPLIANT

This product complies with the environmental regulations for the Restriction of Hazardous Substances in electrical and electronic equipment (RoHS). The RoHS directive prohibits the use of electronic equipment containing certain hazardous substances in the European Union.



This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

UL Installations

For a guide to configuring the Gallagher system to the UL Standard, please refer to the document appropriate to your location:

- "3E2793 Gallagher Command Centre UL Configuration Requirements" (for USA), or
- "3E5960 Gallagher Command Centre ULC Configuration Requirements" (for Canada).

Installers must ensure these instructions are followed to ensure the installed system is UL compliant.



UL294 - Access Control

UL2610 - Commercial Burglary

CAN/ULC-S304- Commercial Burglary

CAN/ULC 60839-11-1- Access Control

AS/NZS IEC 60839.11.1:2019 Grade 4, Class II

EN50130-4

EN55022



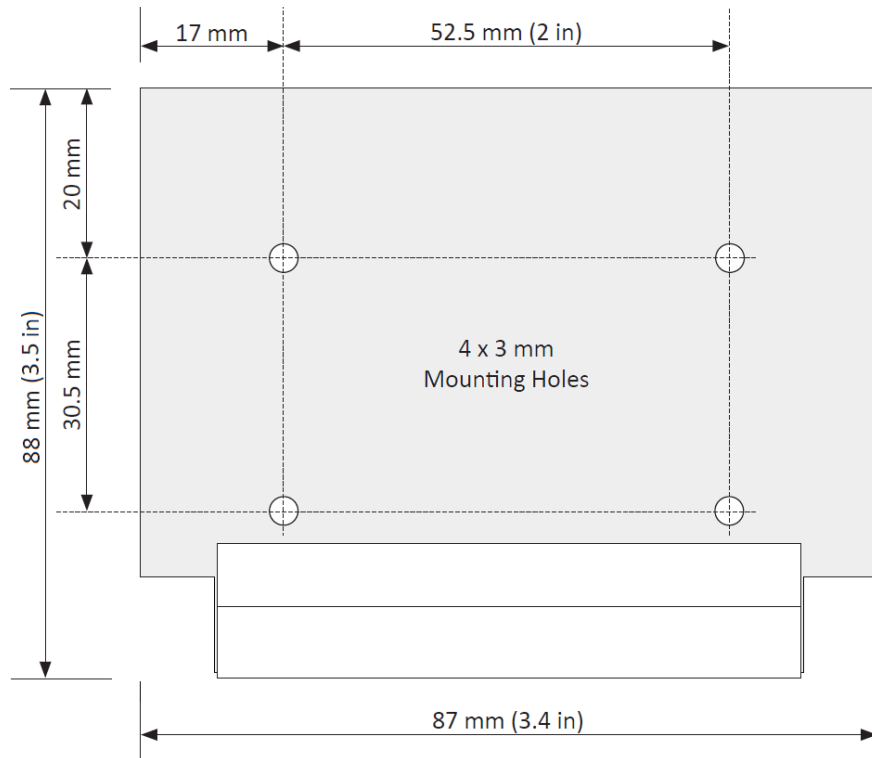
Technical specifications

Measurement	Value
Operating Voltage (Vin):	13.6 Vdc +/- 15%
Operating Current:	20 mA at 13.6 Volts
Maximum Current:	4.02 Amps at 13.6 Volts
Available current from each OSDP outgoing port:	1 x 4A resettable fuse supplying all output power ports
Temperature range:	-10°C to 50°C (14°F to 122°F) (independently verified)
Humidity:	95% non-condensing (Independently verified)
Power and Comms cable length:	Depends on power requirements of end devices
Comms only cable length:	Up to 1000m for Baud rates 112500 or lower
Dimensions:	Height 30mm (1.2 in) with connectors Width 87mm (3.4 in) Depth 88mm (3.5 in)

UL Compliance (US Market Only)

Measurement	Value
Power Supply:	Must be powered by a UL 294 / UL 2610 Power Supply with a class 2 power limited output
UL 294 Performance Levels:	Attack = Level I Endurance = Level IV Line Security = Level 1 Standby Power = Level 1
Temperature range:	0°C to 49°C (32°F to 120°F)
Humidity:	85% non-condensing
Readers connected to the OSDP Hub must be UL 294 / UL 2610 Listed. UL verified HID model RP10E is compatible with this product via OSDP.	
Note: This product is required to be installed in accordance with NFPA 70	

Mounting dimensions



IMPORTANT:

This picture is not to scale, therefore use the measurements provided.

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