

IMPORTANT SAFETY INFORMATION

- Connect the OUTSOURCE 90 injector to POE networks only.
- Only qualified personnel should install or remove the OUTSOURCE 90.

| *The power cord must be a three-conductor type (two current carrying conductors; one ground conductor) terminated on one end by an IEC 60320 appliance coupler (for connection to the POE Media converter), and on the other end by a plug containing a ground (earthing) contact.*

| *The power cord must be rated for a minimum of 250V AC RMS operation, with a minimum rated current capacity of 5 amps (or a minimum wire gauge of 18 AWG (0.75 mm²)).*

- The OUTSOURCE 90 "Data In" and "Data and Power Out" ports are shielded RJ45 data sockets.

| *The AC wall socket-outlet must be near the OUTSOURCE 90 and easily accessible. You can remove AC power from the OUTSOURCE 90 by disconnecting the AC power cord from either the wall socket-outlet or the OUTSOURCE 90 unit itself.*

| *The OUTSOURCE 90 "Data In" and "Data & Power Out" interfaces are qualified as Safety Extra-Low Voltage (SELV) circuits according to IEC 60950-1. Connect these interfaces only to SELV interfaces on other equipment.*

TECHNICAL SUPPORT

If you encounter problems when installing or using this product, please see our trouble shooting section or get in touch with support@veracityglobal.com

www.veracityglobal.com

Veracity UK Ltd. Prestwick International Aerospace Park,
4 Dow Road, Prestwick, KA9 2TU. UK

Veracity's Authorised Representative in the EU (as required by EU law for CE marked goods) is: Comply Express Unipessoal Limitada, StartUp Madeira, EV141, Campus da Penteada, 9020 105 Funchal, Portugal.

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WARNINGS

- | *Connect the OUTSOURCE 90 only to 802.3af or 802.3at and 802.3bt compatible POE devices. Using the OUTSOURCE 90 with other IP devices may cause damage to the IP device.*
- | *Read the installation instructions before connecting the OUTSOURCE 90 to its power source.*
- | *Follow standard electrical safety measures when connecting OUTSOURCE 90 to its power source.*
- | *A voltage mismatch can cause equipment damage and may pose a fire hazard. If the voltage indicated on the label is different from the power outlet voltage, do not connect the OUTSOURCE 90 to that power outlet.*

WARNING

Do not use a cross over cable between OUTSOURCE 90 output port and the powered device (PD).

RECYCLING AND DISPOSAL

Disposal instructions for old products. The WEEE (Waste Electrical and Electronic Equipment) national environmental initiatives have been put in place to ensure that products are recycled using best available treatment, and recovery and recycling techniques to ensure human health and high environmental protection. Your product is designed and manufactured with high quality materials and components which can be recycled and reused. Do not dispose of your old product in your general household waste bin. Find out about the appropriate local collection system for electrical and electronic products marked by this symbol:

Use one of the following disposal options :



1. Dispose of the complete product (including its cables, plugs and accessories) in the designated WEEE collection facility.
2. If you purchased a replacement product, return your older product (including all of the components) back to the retailer. The retailer should accept it as required by the national WEEE legislation.

NOTICE

It is our policy to improve the products offered as new technology, components, software, and firmware become available. We therefore, reserve the right to change specifications without prior notice.

VOR-OS-90

QUICK START GUIDE

SINGLE PORT 802.3BT GIGABIT POE MIDSPAN INJECTOR
OUTSOURCE 90™



FUNCTIONS AND FEATURES

OUTSOURCE 90 Power over Ethernet (POE) Single Port Midspan injector can provide up to 90W based on the IEEE802.3bt standard, it is used for remote powering of current as well as emerging high power applications. It is designed to power POE compliant devices such as IEEE 802.11ax access points, pan-tilt-zoom (PTZ) and dome cameras, IP videophones, thin clients and other high power Ethernet end terminals requiring up to 90W of power.

OUTSOURCE 90 is IEEE 802.3bt type 4 and is also backward compatible and safe to use with an IEEE 802.3af, IEEE 802.3at terminal such as VoIP phones, IP cameras and wireless LAN access points, powering 10/100/1000Base-T devices. With the midspan's plug-and-play installation, they are easy and cost effective to implement leveraging existing Ethernet infrastructure while at the same time providing the assurance of a future proof network.

OUTSOURCE 90 EMC Compliance:

- FCC Part 15 class B and EN55022 class B.
- EN55024 • VCCI

OUTSOURCE 90 Safety Compliance:

- UL/cUL per 60950-1 2nd Ed. • GS mark.

INSTALLATION OF OUTSOURCE 90

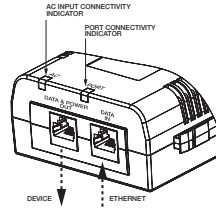
- Do not to cover OUTSOURCE 90 or block the airflow to the injector with foreign objects. Keep OUTSOURCE 90 away from excessive heat and humidity and free from vibration and dust.
- Ensure that the cable length from the network switch to the PD does not exceed 100 meters (330 feet). The POE injector is not a repeater and does not amplify the Ethernet data signal.
- Use a splitter if required; ensure that the splitter is connected close to the PD and not close to the OUTSOURCE 90.
- No "on-off" switch exists; simply plug OUTSOURCE 90 into an AC power source.

INSTALLING THE UNIT

1. Using a standard power cord, connect OUTSOURCE 90 to an AC outlet (100 - 240V AC).
2. Connect the Data In jack (input) to the Ethernet network switch. Connect the Data & Power Out jack (output) to the PD.

CONNECTING OUTSOURCE 90

Figure 1: Connecting OUTSOURCE 90



INDICATORS

System LED	Indicated Behaviour
Off	AC Power off
Green On	AC Power on
Blinking green at 0.5Hz rate	System error

Port LED	Indicated Behaviour
Off	Nothing is connected to the port
Yellow On	Power supplied over 2 pairs
Green On	Power supplied over four pairs
Blinking green at 0.5Hz rate	Port was powered, then port OLP/SCP/Error

SPECIFICATIONS

Environmental Specifications

Mode	Temperature	Humidity
Operating	-10°C to +40°C 14°F to +104°F	10 to 95%; (no condensation allowed)
Storage	-20°C to +70°C -4°F to +158°F	10 to 95%; (no condensation allowed)

Electrical Specifications

Input Voltage	100 - 240V AC (50/60 Hz)
Maximal Input Current	1.35 Ampere
Guaranteed Output Power	90 Watts
Nominal Output Voltage	54V DC

Ethernet Interface

Input (Data In): Ethernet 10Base-T/100Base-TX/1000Base-T	RJ45 female socket
Output (Data & Power Out): Ethernet 10Base-T/100Base-TX/1000Base-T, plus 54V DC	RJ45 female socket, with Pin Assignment & Polarity: Data Pairs 1/2 (-), 3/6 (+) Spare Pairs 7/8 (-), 4/5 (+)

TROUBLE SHOOTING | CORRECTIVE STEPS

OUTSOURCE 90 DOES NOT POWER UP

1. Verify that a reliable power cord is used.
2. Verify that the voltage at the power inlet is between 100V AC and 240V AC.
3. Remove and re-apply power to the device and check the indicators during power up sequence.

POWERED DEVICE (PD) DOES NOT OPERATE

- | Verify that the OUTSOURCE 90 detects a PD.
- | Verify that the PD is designed for POE operation.
- | Verify that you are using a standard Category 5/5e/6, straight-wired cable, with four pairs.
- | If an external power splitter is in use, check it is functioning correctly or replace it.
- | Ensure the input Ethernet cable is connected to the Data In port.
- | Verify that the PD is connected to the Data & Power Out port.
- | Try to reconnect the same PD into a different OUTSOURCE 90. If it works, there is probably a faulty port or RJ45 connection.
- | Verify that there is no short over any of the twisted pair cables or over the RJ45 connectors.

THE POWERED DEVICE (PD) OPERATES, BUT THERE IS NO DATALINK

- | Verify that the port indicator on the front panel is continuously lit.
- | If an external power splitter is in use, check it is functioning correctly or replace it.
- | Verify that for this link, you are using standard UTP/FTP Category 5 straight (non-crossover) cabling, with all four pairs.
- | Verify that the Ethernet cable length is less than 100 meters from the Ethernet source to the PD.
- | Try to reconnect the same PD into a different OUTSOURCE 90. If it works, there is probably a faulty port or RJ45 connection.
- | Ensure that the input Ethernet cable is connected to the POE Midspan "DATA IN" port.

PD = Powered Device