# **Direct current power unit**

This instrument is used to drive a micro differential pressure sensor or micro

differential pressure transmitter with 12 to 24 V DC power specification.

## **HWS15A**

## HWS15A

Direct current power unit

List of products

WO81

WO71

FR51A

MS99S

MS99

MS61A-RA

QDP33

EMD8A

EMD7

EMT1

EMTGP1

EMT1H

EMT6

EMP5A

EMRT1

HWS15A

Accessories

Application

Precautions

Maintenance

# CE CTUS D CULUS





**RoHS** 



#### **Product code**

#### HWS15A-24/A

- ◆When making an inquiry or placing an order, specify the above
- ◆The DC power device HWS15A is a product manufactured by TDK-Lambda Corporation.

# Direct current power unit

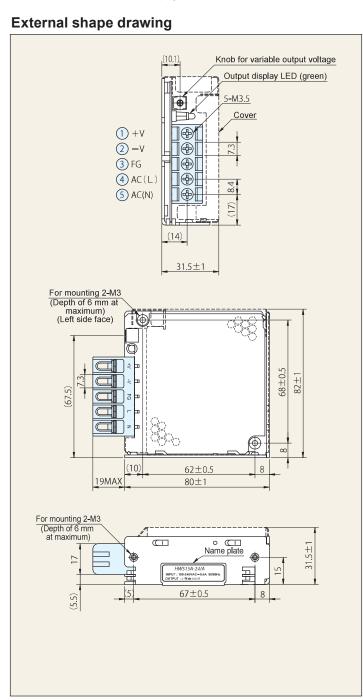
## HWS15A

### HWS15A

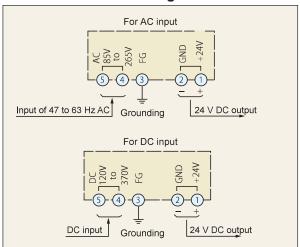
#### **Specifications**

Model	HWS15A-24/A
Input voltage	85 to 265 V AC (47 to 63 Hz) or 120 to 370 V DC
Output voltage	24 V DC
Maximum output current	0.65 A
Output variation at operating ambient temperature	0.02%/°C or lower
Overcurrent protection	0.68 A and higher
Operating ambient temperature	-10°C to +70°C (-10°C to +50°C: 100%, +60°C: 80%, +70°C: 60%)
Operating ambient humidity	30% to 90% RH (no condensation allowed)
Withstand voltage	Between input and FG: 2 kV AC (20 mA), between input and output: 3 kV AC (20 mA) Between output and FG: 500 V AC (100 mA), each for one minute
Insulation resistance	100 MΩ or higher (between output and FG: 500 V DC, 25°C, 70% RH)
Mass	Approx. 210 g

<sup>◆</sup>For use environment, refer to page 118.



#### **Terminal connection diagram**



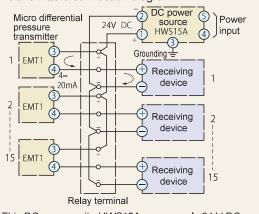


Terminal screw tightening torque: 1.6 N·m

Do not tighten to a torque that exceeds the specified value because doing so breaks the instrument body.

#### When there are multiple micro differential pressure transmitters

Multiple two-wire type micro differential pressure transmitters connection diagram



This DC power unit <HWS15A> can supply 24 V DC power to up to 15 two-wire type micro differential pressure transmitters. Provide relay terminals for DC power distribution use as shown in the figure above, and supply power to each transmitter. The user should prepare the relay terminals for distribution use.

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## **Combination**

## Combination with micro differential pressure transmitter

List of products

WO81

WO71

FR51A

MS99

MS99S

MS61A-RA

QDP33

EMD8A

EMD7

EMT1

EMTGP1

EMT1H

EMT6

EMP5A

EMRT1

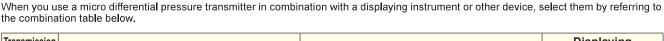
HWS15A

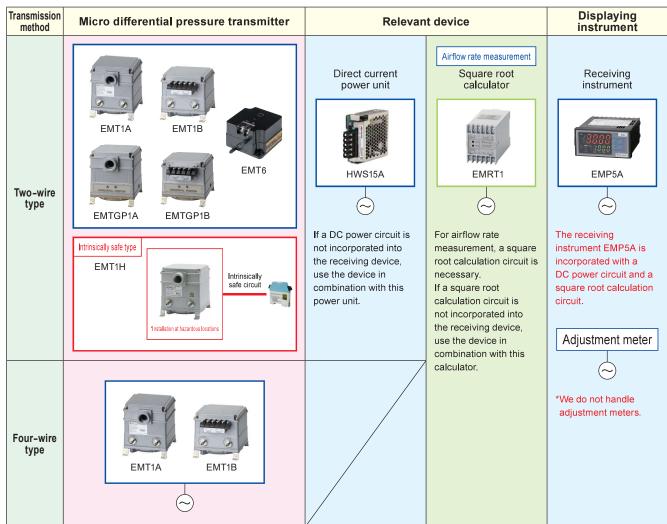
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- ♦⊙: Represents power voltage of 100 V AC 50/60 Hz. (For the power voltage input range, refer to the page describing each product.)
- ◆Be sure to combine our receiving instrument with a micro differential pressure transmitter with the same pressure range as that on the nameplate attached to the body of the receiving instrument.
- ◆Please be advised that if a failure occurs because of the combination of our product with a device from another manufacturer, we shall assume no responsibility. Therefore, pay due attention to the functions and circuits of the device.
- ♦When installing a device as an intrinsically safe device, pay attention to hazardous and non-hazardous locations. (Refer to page 87)
- ♦When you use these products for airflow rate/airflow speed measurements, we need to obtain the specifications of the pressure detection side. Fill out the airflow rate/airflow speed specification document preparation sheet on page 15, and inform us of the data.

#### **Warranty**

#### Warranty period

The warranty period for our product is one (1) year from delivery to the location specified by the orderer who makes a direct transaction with us.

#### Scope of warranty

If any failure or defect attributable to us becomes clear during the above warranty period, we will repair the product or supply a substitute product free of charge. However, even during the warranty period, we will exclude the product from the scope of the warranty if the failure or defect corresponds to any of the following:

- (1) The failure or defect was caused by an unreasonable condition, environment, handling, or usage not mentioned in the instruction manual, specifications, and our product catalog.
- (2) The failure or defect was caused by a factor other than our product.
- (3) The failure or defect was caused by a modification or repair conducted by a party other than us.
- (4) The failure or defect was caused by an event that could not be foreseen at the scientific and technical levels at the time of product shipment from us.
- (5) The failure or defect was caused by an external factor not attributable to us, such as acts of God and disasters.

Please note that the warranty mentioned here means the warranty for our individual product, and damage provoked by a failure or defect of the product is excluded from the scope of the warranty.

\*This warranty is valid only in Japan.

#### **Application and usage**

Our products are designed and manufactured as general-purpose instruments for general industries.

Therefore, our products are not intended for the following uses, and our products used in such a manner are outside the scope of application.

- (1) Equipment that is anticipated to greatly affect lives and properties, such as nuclear power generation, aviation, railways, marine vessels, vehicles, and medical devices
- (2) Utilities that include electricity, gas, and service water
- (3) Use in outdoor locations and under similar conditions or environments other than those stipulated in the instruction manual
- (4) Usage to which considerable safety consideration and attention equivalent to (1) and (2) above need to be given

#### **Service**

#### Scope of service

Because the product price does not include service expenses, such as the dispatch of engineers, we will separately charge for the expenses in the following cases:

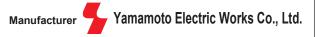
- (1) Instruction for installation and adjustment and a witnessed test run
- (2) Maintenance inspection, adjustments, and repairs
- (3) Technical guidance and technical education
- (4) Witnessed inspections of products at our factory

<<Note>> The product specifications and information in this catalog are subject to change without prior notice for product improvement or other reasons.

●For order placement, contact			



1-2-3 Nishishiriike-cho, Nagata-ku, Kobe City, Hyogo 653-0031 TEL. +81-78-621-7000 FAX. +81-78-621-7788



1-2-3 Nishishiriike-cho, Nagata-ku, Kobe City, Hyogo 653-0031 TEL. +81-78-631-6000 FAX. +81-78-631-6020