

## Distributor (Isolation Type)

PWBDY

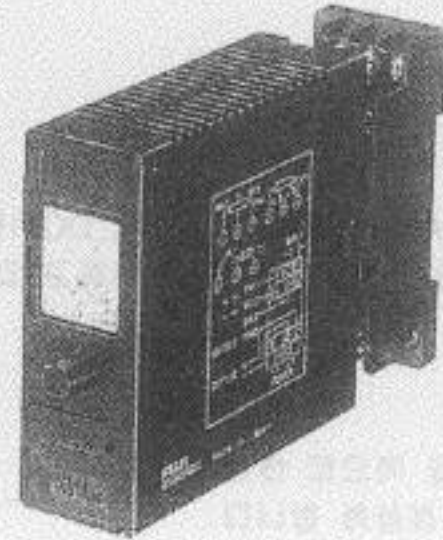
Distributor(절연형)은 2 선식 전송기와 현장의 전송기에 신호선을 통하여 소정의 DC전류를 공급하는 동시에 전송기가 발신하는 DC4~20mA 신호를 감시·제어기기로의 입력에 적당한 신호로 변환 입·출력 절연을 행합니다.

### 특징

- 보조전원 AC85~264V, DC24V, DC110V를 선정 가능하고, 입·출력 회로와 절연하고 있습니다.
- 단락보호기능

### 사양

Model	PWBDY		
Isolation	Photocoupler		
Accuracy	±0.1% (within 2%~100% of input)		
Temperature effect	±0.02%/°C		
Response time	0.5sec. or less (0→90%)		
Power source for transmitter	Voltage: 24Vdc (NO-LOAD) Current: 22mAdc max. (approx. 30mA at short circuit) Ripple: 0.1Vp-p max. Allowable short circuit time: No-Limit Fluctuation by load: 2% max/0~100% load		
Isolation resistance	100MΩ min. (500Vdc)/between each terminals		
Di-electric strength	1500Vac 1min. (input~output 1.2~power source) 1000Vac 1min. (output1~output2)		
Power supply	AC	85~264Vac 50/60Hz	
	DC	24Vdc ± 10%, 110Vdc ± 10%	
Power consumption (PWBDP connection)	100Vac:	approx. 5VA (5.5VA)	
	200Vac:	approx. 7.5VA (8VA)	
	24Vdc:	approx. 120mA (140mA)	
	110Vdc:	approx. 50mA (55mA)	
Ambient temperature and humidity	-5~+55°C		
	90%RH or less (no condensation)		
Input signal (input impedance)	4~20mAdc (250Ω)		
Input compensation function (with evolution)	$Y = \sqrt{\frac{X - (\text{Input zero})}{\text{Input span}}} \times \text{Output span} + (\text{Output zero})$ X: Input value Y: Output value Example) Input: 4~20mAdc Output range: 4~20mAdc Output value $Y = \sqrt{\frac{20-4}{16}} \times 16 + 4 = 20$ (mA)		
Output 1 (Out 1) (Load resistance)	DC voltage	0~5V 0~10V 1~5V *1 (1kΩ min.)(2kΩ min.)(1kΩ min.)	
	DC current	0~20mA 4~20mA *2 (500Ω max.)(500Ω max.)	
Output 2 (Out 2) (Load resistance)	Signal	DC voltage	1~5V (1kΩ min.)
		DC current	4~20mA (350Ω max.)
	Communication	RS485 *3	
Zero adjustable range	approx. -5%~+5% (by loader)		
Span adjustable range	approx. 95%~105% (by loader)		
Mass (weight)	approx. 150g		



### 명식

PWBDY-□□□□□1

• Version No.

• Power supply

Code	Power Supply
0	85~264Vac, 50/60Hz
3	24Vdc ± 10%
4	110Vdc ± 10%

• Output 2 (Out 2)

Code	Range
A	1~5Vdc
H	4~20mAdc
V	Communication (RS485)
Y	Without

• Output 1 (Out 1)

Code	Range
A	1~5Vdc
B	0~5Vdc
C	0~10Vdc
H	4~20mAdc
P	0~20mAdc

Transmitters power supply •

Code	Range
01	24Vdc
02	24Vdc (with root extraction)

- \*1: PC loader로 변경 가능 (DC0~5V ↔ DC0~10V ↔ DC1~5V) 전류 type으로 변경할 수 없음.
- \*2: PC loader로 변경 가능 (DC0~20mA ↔ DC4~20mA) 전압 type으로 변경할 수 없음.
- \*3: Address는 PC loader로 설정됨.