

## Two-Wire Universal Temperature Transmitters

### Field Mount Type

- B6U-B** HART, intrinsically safe / explosion-proof - flameproof / nonincendive  
**B6U** HART, intrinsically safe / nonincendive

- Plug-in two-line LCD display
- HART programmable
- AMS software version 6.0 or higher
- Stainless steel enclosure optional
- ATEX Zone 0 approvals
- FM Class I, II, III, Division 1 approvals



M-System's Models B6U and B6U-B accept a wide variety of inputs including thermocouples and RTDs as well as mV, resistance and potentiometer sensor types. This universal two-wire transmitter reduces component costs while meeting the requirements of hazardous applications. They provide signal isolation to output a proportional 4-20 mA signal.

Both models have the HART capability which allows users a flexibility to program the modules either via hand-held communicator or via PC. Input sensor type, temperature range and other items including HART properties are programmable. Additionally, users' own temperature calibration tables can be used. This feature makes the B6U and B6U-B the most universal temperature transmitters.

Optional highly legible LCD display indicates input signal in engineering unit and the transmitter status. The module is also used to configure the transmitter and can be removed when not used.

The B6U designed for intrinsic safety and the B6U-B including the explosion-proof (flameproof) enclosure (NEMA 4X, IP65) are most suitable for use in an explosive atmosphere in chemical and petrochemical industries. A pipe mounting bracket is optional for the B6U-B for easy installation.

### Head Mount, Low-cost Type

- 27HU** HART **NEW**
- Suitable for DIN B type head
  - ATEX Zone 0 approvals
  - LED indicator optional



### DIN Rail Mount, Thin-profile Type

- B3HU** HART   
**B3PU** PROFIBUS-PA **NEW**
- 18 mm (.71") wide
  - AMS software version 6.0 or higher
  - SIMATIC PDM
  - ATEX Zone 0 approvals (B3PU: pending)



### Bell202 Modem **NEW**

- COP-H** RS-232C interface  
**COP-HU** USB interface

- Connects a HART transmitter to PC for programming



### SPECIFICATIONS

Series	B6 Series		27 Series	B3 Series	
Model No.	B6U-B	B6U	27HU	B3HU	B3PU
Selectable input	K, E, J, T, B, R, S, C, N, U, L, P, Pt 100 - Pt 1000, Ni 100, Ni 120, Ni 508.4, Ni-Fe 604, Cu 10 @25°C 0 to 4000 Ω, -50 to +1000 mV				
Output	4-20 mA (500Ω at 24V)				PROFIBUS-PA
Supply voltage	12-42 Vdc (up to 28V approved)				9-30 Vdc
Accuracy	•				
Response (0-90%)	≤2 sec.				
Operating temp	-40 to +85°C (-40 to +185°F)				
Insulation resistance	≥100MΩ with 500 Vdc				
Dielectric strength	1500 Vac @1 minute (input to output to ground)				
CE marking	EMC / ATEX		EMC / ATEX	EMC / ATEX	Yes
Safety approval	IS, EX, nonincendive	IS, nonincendive	IS	IS	Pending

\*Depends upon the I/O types and ranges. Refer to the data sheet for the respective model for detail.