

## Analog RTD and Thermocouple Modules

| Cat. No.   | Inputs/Outputs                                                     | Range                                                                                            | Resolution                                                                                                                                                                                                                          | Removable Terminal Block |
|------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 1756-IR6I  | 6 individually isolated RTD inputs                                 | 1...487 $\Omega$<br>2...1000 $\Omega$<br>4...2000 $\Omega$<br>8...4000 $\Omega$                  | 16 bits<br>1...487 $\Omega$ : 7.7 m $\Omega$ /bit<br>2...1000 $\Omega$ : 15 m $\Omega$ /bit<br>4...2000 $\Omega$ : 30 m $\Omega$ /bit<br>8...4020 $\Omega$ : 60 m $\Omega$ /bit                                                     | 1756-TBNH<br>1756-TBSH   |
| 1756-IRT8I | 8 individually isolated inputs, RTD or thermocouple inputs (2 CJC) | 1...500 $\Omega$<br>2...1000 $\Omega$<br>4...2000 $\Omega$<br>8...4000 $\Omega$<br>-100...100 mV | 24 bits<br>0...510 $\Omega$ : 0.06 m $\Omega$ /count<br>0...1020 $\Omega$ : 0.12 m $\Omega$ /count<br>0...2040 $\Omega$ : 0.25 m $\Omega$ /count<br>0...4080 $\Omega$ : 0.50 m $\Omega$ /count<br>-101...101 mV: 0.01 $\mu$ V/count | 1756-TBCH<br>1756-TBS6H  |
| 1756-IR12  | 12 channels RTD mode                                               | 1...500 $\Omega$<br>2...1000 $\Omega$<br>4...2000 $\Omega$<br>8...4000 $\Omega$                  | 24 bits<br>0...510 $\Omega$ : 0.06 m $\Omega$ /count<br>0...1020 $\Omega$ : 0.12 m $\Omega$ /count<br>0...2040 $\Omega$ : 0.25 m $\Omega$ /count<br>0...4080 $\Omega$ : 0.50 m $\Omega$ /count                                      | 1756-TBCH<br>1756-TBS6H  |
| 1756-IT16  | 16 channels, thermocouple mode<br>2 CJC                            | -100...100 mV                                                                                    | 24 bits<br>-101...101 mV: 0.01 $\mu$ V/count                                                                                                                                                                                        | 1756-TBCH<br>1756-TBS6H  |
| 1756-IT6I  | 6 individually isolated thermocouple inputs<br>1 CJC               | -12...78 mV<br>-12...30 mV                                                                       | 16 bits<br>-12...78 mV: 1.4 $\mu$ V/bit<br>-12...30 mV: 0.7 $\mu$ V/bit                                                                                                                                                             | 1756-TBNH<br>1756-TBSH   |
| 1756-IT6I2 | 6 individually isolated thermocouple inputs<br>2 CJC               | -12...78 mV (1.4 $\mu$ V per bit)<br>-12...30 mV (0.7 $\mu$ V per bit)                           | 16 bits<br>-12...78 mV: 1.4 $\mu$ V/bit<br>-12...30 mV: 0.7 $\mu$ V/bit                                                                                                                                                             | 1756-TBNH<br>1756-TBSH   |

## Analog Output Modules

| Cat. No.   | Inputs/Outputs                                      | Range                                       | Resolution                                                                                                                        | Removable Terminal Block |
|------------|-----------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 1756-OF4   | 4 voltage or current outputs                        | $\pm$ 10V<br>0...20 mA                      | Voltage:<br>15 bits across 10.5V, 320 $\mu$ V/bit<br>Current:<br>15 bits across 21 mA, 650 nA/bit                                 | 1756-TBNH<br>1756-TBSH   |
| 1756-OF6CI | 6 individually isolated outputs, current            | 0...21 mA                                   | 13 bits across 21 mA (2.7 $\mu$ A)                                                                                                | 1756-TBNH<br>1756-TBSH   |
| 1756-OF6VI | 6 individually isolated outputs, voltage            | $\pm$ 10.5V                                 | 14 bits across 21V (1.3 mV)<br>(13 bits across 10.5V +sign bit)                                                                   | 1756-TBNH<br>1756-TBSH   |
| 1756-OF8   | 8 voltage or current outputs                        | $\pm$ 10V<br>0...20 mA                      | 15 bits across 21 mA - 650 nA/bit<br>15 bits across 10.4V - 320 $\mu$ V/bit                                                       | 1756-TBNH<br>1756-TBSH   |
| 1756-OF8H  | 8 voltage or current outputs, HART interface        | $\pm$ 10V<br>0...20 mA<br>4...20 mA         | 15...16 bits                                                                                                                      | 1756-TBNH<br>1756-TBSH   |
| 1756-OF8I  | 8 individually isolated outputs, current or voltage | $\pm$ 10V<br>0...10V<br>0...5V<br>0...20 mA | 16 bit<br>$\pm$ 10.5V (0.32 mV/count)<br>0...10.5V (0.16 mV/count)<br>0...5.25V (0.08 mV/count)<br>0...21 mA (0.32 $\mu$ A/count) | 1756-TBCH<br>1756-TBS6H  |
| 1756-OF8IH | 8 individually isolated current outputs             | 0...20 mA<br>4...20 mA                      | 15 bits across 24 mA, 732 nA per bit                                                                                              | 1756-TBCH<br>1756-TBS6H  |