Input Modules

For input modules, DC inputs are 24V DC nominal, with an input range of 10...28.8V dc, and are offered with 2, 4,or 8 sinking style inputs, or 2, 4, or 8 sourcing style inputs. The 1734-IB2, 1734-IB4, 1734-IB4D, and 1734-IB8 input modules are sinking modules. The 1734-IV2, 1734-IV4, and 1734-IV8 modules are sourcing input modules.

For input modules, AC inputs are 120V AC nominal with an input range of 85...132V ac, or 220V AC nominal with an input range of 159...264V ac, with sinking inputs.

Features of the all input modules include the following:

- Autobaud (will match baud of existing devices on the network)
- Selectable input filter times (0...65 ms with 1 ms default)
- Sequential auto addressing

Output Modules

The 1734-OB2, 1734-OB4, 1734-OB8, 1734-OB2E, 1734-OB4E, and 1734-OB8E DC output modules have current limited sourcing outputs, which source a positive voltage of up to 1 A with respect to their DC return per channel. The 1734-OB2EP sources a positive voltage of up to 2 A with respect to its DC return per channel. The outputs are not isolated from each other. For these modules, DC outputs are 24V DC nominal, with a range of 10...28.8V dc. A number of output diagnostic features are incorporated to assist in troubleshooting. The 1734-OB2E, 1734-OB2EP, 1734-OB4E, and 1734-OB8E modules feature the following:

- Output diagnostics (short circuit and wire-off indication and reporting bits per channel)
- Current limited outputs
- Autobaud (will match baud of existing devices on the network)
- Sequential auto addressing

The 1734-OV2E, 1734-OV4E, and 1734-OV8E modules are protected sink output modules protected to 1 A. The outputs are not isolated from each other. For these modules, DC outputs are 24V DC nominal, with a range of 10...28.8V dc. A number of output diagnostic features are incorporated to assist in troubleshooting. The 1734-OV2E, 1734-OV4E, and 1734-OV8E modules feature the following (note that 1734-OV2E, 1734-OV4E, and 1734-OV8E modules have no wire-off indication):

- Output diagnostics (short circuit and reporting bits per channel)
- Current limited outputs
- Autobaud (will match baud of existing devices on the network)
- Sequential auto addressing

The 1734-OA2 and 1734-OA4 AC output modules have sourcing outputs, which source a voltage of up to 0.75 A per channel. The outputs are not isolated from each other. For this module, AC outputs are 120/220V AC nominal, with a range of 74...264V dc. The 1734-OA2 and 1734-OA4 modules feature the following:

- Autobaud (will match baud of existing devices on the network)
- Sequential auto addressing

Relay Output Modules

Two versions of relay modules are:

- 1734-OW2, 1734-OW4 relay module.
- 1734-OX2 relay module.

The 1734-OW2 and 1734-OW4 relay outputs are Type A (Normally Open), the 1734-OX2 relay outputs are Type 2 Form C. Both modules' outputs sink or source a current with respect to power or return. Contact outputs are isolated from each other. Each output is rated 5...240V rms at 2 A (current is load dependant). Features include:

- Autobaud (will match baud of existing devices on the network).
- Sequential auto addressing.

Analog Modules

The 1734 analog modules consist of input modules (1734-IE2C and 1734-IE2V) and output modules (1734-OE2C and 1734-OE2V). Each module has two single-ended, non-isolated channels.

Cat. No.	Module Type	Number of Channels	Resolution
1734-IE2C	Analog Input	2	16 bits across 0…21 mA
1734-IE2V	Analog Input	2	15 bits plus sign across -10…10V
1734-OE2C	Analog Output	2	13 bits across 0…21 mA
1734-OE2V	Analog Output	2	14 bits across -10…10V

The features of the analog modules depend on the type of analog module: input or output. These are features common to both input and output modules.

- Data - The current input and output modules operate in unipolar mode only. Voltage input and output modules operate in unipolar or bipolar modes. Data returned from the module is scaled by the user to any 16 bit signed integer
(–32,768...+32,767).
- Input modules produce 6 bytes of data.
  - Channel 0 Data (2 bytes)
  - Channel 1 Data (2 bytes)
  - Channel 0 Status (1 byte)