FDSN Channel Instrument Code X

Derived or Generated Channel: Time series derived from observational data or entirely generated by a computer algorithm, as would be the case with synthetic seismograms.

Instrument Code
X

Orientation Code
Similar to the observable data that was modified or the observable equivalent for generated time series (synthetics). See Orientation Codes for the corresponding observed channel.

Further Usage:
In order to document the provenance of the data, SEED header information must be available that documents the algorithms, processes, or systems that modified or generated the time series. A Channel Comment Blockette (059), providing a Uniform Resource Locator (URL), must be included. The information available at the URL must identify the processes that were applied to modify or generate the time series. This information must reference the FDSN web site.

In addition to the requirement to include a B059, it is required to put a short description of the process/instrument in the 30 character channel comment (field 7 of B052).

FDSN Channel Instrument Code Y

Non-specific Instruments: The instrument code in SEED format covers most commonly used instruments that generate time series. For instruments not specifically covered by an existing instrument code the Y instrument code can be used.

Instrument Code
Y

Orientation Code
Instrument Specific. Should be documented in the URL referenced below.

Further Usage:
In order to document the instrument type and provenance of the data, SEED header information must be available that documents the instrument that was used to generate the time series. A Channel Comment Blockette (059) must be provided in the SEED metadata. The Channel Comment Blockette should provide a short description of the instrument, the type of measurement it makes

and provide a Uniform Resource Locator (URL) referencing the FDSN web site that fully describes the instrumentation.

In addition to the requirement to include a B059, it is required to put a short description of the process/instrument in the 30 character channel comment (field 7 of B052).