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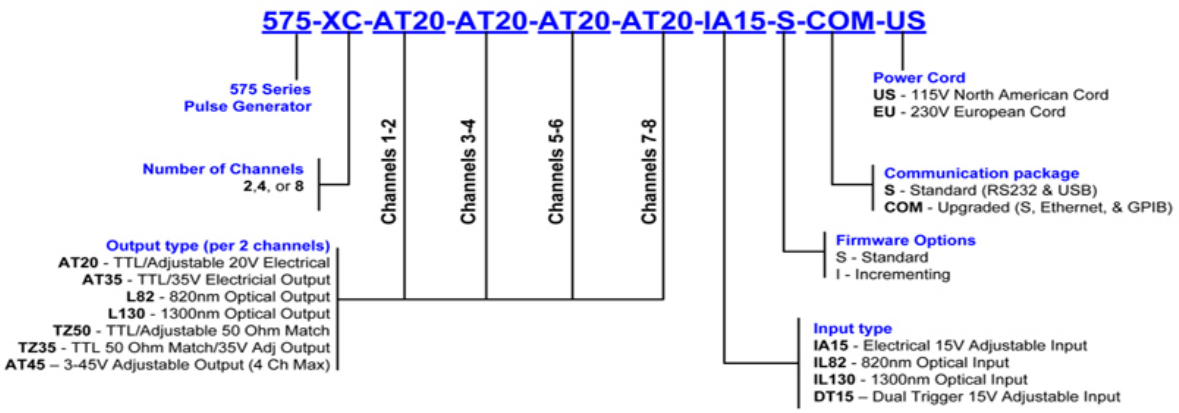
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575 Series Pulse Generator Part Numbering



Examples

575-2C-AT20-IL82-S-S-US: 2 channel electrical outputs, 820nm inputs, standard firmware, standard communication, US power cord
575-8C-AT20-AT20-L82-L82-IA15-S-COM-EU: 8 channel, 4 electrical 4 optical outputs, electrical inputs, standard firmware, upgraded cor
European power cord
575-4C-AT20-AT20-IA15-I-S-US: 4 channel, all electrical outputs and inputs, incrementing firmware, standard communication, US power

Features

- 250pS Delay & Width Resolution on 8 channels
- 50pS channel Jitter / 800pS RMS Ext. jitter
- Independent clock rates for each channel
- Clock In & Clock Out
- Programmable (Ethernet/USB/RS-232/GPIB)
- Combine Electrical and Optical Outputs
- Dual Inputs (2 Gate / Gate+Trig / 2 Trig)

Applications

- Trigger, Gate, Delay, Pulse or Sync experiments or lasers
- Sync to an External Clock, Pulse Pick (up to 100 MHz)
- Master/Slave or Multiple Unit Slave; Complex Burst Functions
- Control Front-End, Q-Switch, Flashlamp, PIV, Laser/Pump Laser Timing



Industry Comparison Chart | Datasheet (Chinese) | Russian

The Model 575 provides multi-channel 250 ps-resolution timing, delaying, gating, pulsing and syncing functions for an attractive price. There are many practical modes of operation and features in additior traditional digital delay and pulse generator modes. For usefulness and value – there is nothing comp

Each channel provides both delays and widths – so a 2-channel Model 575 provides the same delay width functionality of competitive 4-channel units. The 575 is available in 2, 4 and 8 channel configura with optional Ethernet, USB, High Voltage and Dual Input Trigger options.

This Digital Delay/Pulse Generator, representing our finest in precision timing, provides precise delays and widths with 250pS resolution for times seconds. Low jitter both with internal clocks (50pS) and using an external trigger (800pS) give users the timing needed to control many devices. Th particularly useful where several pulses or gate signals need to be delayed and timed with respect to each other or the common trigger. You may e one channel as a trigger reference for other channels, locking the timing delays when needed. There is lots to learn about the Model 575, which of more than a clock-divider, independant channel triggering, indendant amplitudes/channel, delay and width control, and a Labview 8 driver. Give us are happy to discuss your applications.

New Features in the Model 575:
Illuminated Channel Enable Buttons
Each channel has a designated enable/disable button. When individual channels are active or enabled the buttons are illuminated. This allows for reference and avoids any confusion of output operability. The run/stop indicator on the front panel LCD display as well as an illuminated run/stop b further simplify setup.

Selectable Clock Reference
The Model 575 offers additional inputs and outputs for external clock syncing. Specify your input / output reference frequency (10MHz to 100MHz) with the Mode Lock Oscillator of a laser, or phase lock multiple units with one clock.

Flexible Gating Options
The Model 575 is packed with gating options for almost any setup. You may gate with a channel or on any input. You may gate individual channels all. Gate immediately (output inhibit) or gate after a pulse (pulse inhibit).

External Trigger Options
Select channels for internal / external triggering, or free-run. Triggered channels have flexible output choices: single pulse, burst at its clock rate, c pulse train or a series of on/off pulses (duty cycle).

Individual Rates

Each channel can have individual channel rates (either To or Tx... where Tx is the alternate channel rate for that specific channel... e.g. T1 for Cha
This is similar to having a separate clock for each output.

Auto-Save
Forgot to save your settings? The Model 575 stores your setup configurations while powering down. Recall is automatic on power-up.

Dual Input Panel Connectors
The Model 575 offers two inputs for triggering or gating. User may specify electrical or optical input signals, and configure any trigger/gate combina
Trigger #2 to disable a triggered pulse train.

Front Panel High Voltage
Our modular architecture allows us to offer expanded functionality on user-selected front panel outputs. We offer a front panel High Voltage option
adjustable to 35V, 200 mV steps) on 2, 4, 6 or all 8 channels.

Front Panel Optical
Many applications benefit from optical signals. For noisy environments, or communications applications, we offer an LED output stage at the front
This modular option can be configured for 2, 4, 6 or 8 outputs at 820nm or 1310nm.

Combined Output Types
The outputs are configured in modules and output types are combined in pairs. Thus one may select optical, standard electrical or high voltage ele
pairs for their instrument. For example, a 8 channel unit may have optical, standard electrical and high voltage outputs all on one instrument. Custo
additional output modules will be added as the need arises.

Field Programmability
The instrument can now have functions upgraded in the field, such as a special or custom feature upgrade via a fully programmable FPGA.

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