????????? PX5

??????????????????? ??????????? ???????? ?????????? ????????? PX5, ?????????????? ?????????? ????????? (???) ? ???????? ???????

???????: ??? ????????
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[??????? ?????? ?? ????? ??????]

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- ?????? ????, ??????????? ?? ????? ??????????? (SDD, Si-Pin, Cd-Te) ???????????? ???????? Amptek
- ????????: ???????? ????????? ??????????? ?????????, ?????????? ???, ????????? ???????
- ???????? ? ??????????? ?????? ?????????????, ? reset and feedback ???????????????, ????????? ??????????.
- ???????????? ????? ????????? ? ??????? ??????? ??????? ?????, ??? ??????????? ??????
- ??????? ???????? ?????, ?????????? ??????????? ? ?????????? ????????? ????????
- ?? 8 ????? ???????? ??????? ???
- ????? ???????????? - ??? ???????????? ? ??????????????? ?????????
- 8 ????????? ???????? ???????
- [????????]

PX5 ????? ???? ???????? ? ??????????? ?????????????? ? ?????- ????????? ? ???????????, ?? ??????? ???????? ????????? ????? ?????? ? ??????????? ??????. ?? ?????????? ??? ??????? ????????? SDD, Si-Pin, Cd-Te, ???????????? ???????? Amptek, ?? ????? ????? ???? ??????????? ??? ?????? ? ??????? ???????????? ??????????? ? ???????????????, ??????? HPGe ????????? (????????????????? ????????? ?? ???????????? ????????) ? ?????????????. ????????? PX5 ????????: ???????? ?????????? ????????? (???????? ???????????? ??????????? ?????????), ???, ???????? ???????? ? ??????? ??????????.

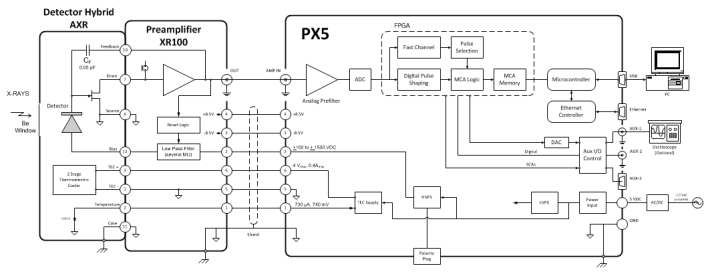
DP5 ????? ????????? ???????? ??????????? ?? ????????? ? ????????????? ?????????, ??????? ??????????? ????????????? (????? ??????? ??????????, reduced ballistic deficit, ????? ??????? ?????????? ???????????, ?????????? ????????????), ??????? ?????????? ????????? ????? ??? ??????????? ???????????? ???????, ? ????? ???????????? ??? ?????????? ? ?????? ????????????? ? ?????? ??????????. PX5 ??????? ?? ???????? ?????????? Amptek ?? ????????? ?????????, ??? ?? ???????????? ? ??????? ????????? DP5.

??????? ???????? ??? PX5 ???????? ???????? ?????? ?????????????, ??????? ????? ?????????????? ??????????? PX5. PX5 ??????????? ???? ??????, ?????????? ??????? ?????????, ?????????? ?????? ? ??????, ???????? ?????????????? ??????. ???? ?????? ????? ?????????? ?? ????????? ???????????? ????? ?????????? USB, Ethernet ??? RS232.

PX5 ????????? ? 32-? ? 64-? ?????? ???????????? ???????, ??????? Windows 7.

??????? PX5 ???????????? ????????? ????????? ?????:

1. ???????????? ?????? ?????????????
2. ????????? ???????????? ???????????? ?????????
3. ??????? ???????? ?????? ??? ???
4. ???????????? ???????? ????????? ???? XR100.


Detector Hybrid
AXR
Preamplifier
XR100
PX5
FPGA
Fast Channel
Pulse Selection
Digital Pulse Shaping
MCA Logic
MCA Memory
Microcontroller
Ethernet Controller
ADC
DAC
Aux I/O Control
Analog Prefilter
Reset Logic
Low Pass Filter (several MHz)
2-Stage Thermoelectric Cooler
TEC Ready
USPS
LSPS
Power Input
Polarity Plug
USB
PC
Ethernet
Oscilloscope (Optional)
AUX-1
AUX-2
AUX-3
3.3VDC
GND
AC/DC
Digital
SCAs
Shield
X-RAYS
Be Window
Detector
Feedback
Drain
Source
Bias
TEC-1
TEC-2
Temperature
Clock
GOUT
AMP IN
+5.5V
-5.5V
+5.5V
-5.5V
0.00 to ≥ 100 VDC
0 V$_{DC}$ -0.4A$_{DC}$
720 µA, 740 mV