

1 Preliminary Technical data requirement

1.1 Electrical data

(TBD = To Be Defined)

Charge Range:	+/- 5'000 pC / 5V (optional +/-10'000 pC)
Initial gain error:	< +/-4%
Output voltage range:	> +/- 6.3 V with load resistance > 10 K Ω
Output impedance :	< 100 Ω
Frequency response (-3dB)	0..10kHz
Drift:	
- Drift @ 25 °C:	< 0.03 pC/sec
- Drift @ -20 - +85 °C:	max. 2 pC/sec
(doubled every 10°C above 25°C)	
Time constant:	> 50000 sec (measuring range "long")
Input isolation resistance:	Not TBD
Input noise:	Not TBD
Output noise (0.1Hz ... 100kHz):	< 10 mVpp
Input-offset:	< +/- 8 mV over the operating temperature range
Output-offset:	< +/-15 mV over the operating temperature range
Reset Input range:	+/- Supply voltage
Reset and Operate levels:	
- OPERATE, LOW :	<= 0.8 V
- RESET, HIGH:	>= 2.0 V
Operate to Reset time:	2 mSec
Reset to operate time:	5 mSec
Reset to Operate jump:	< 5 pC
Supply Voltage:	+/- 7.1 - 7.9 V
Supply current:	< +/- 5 mA

1.2 Mechanical data

s. 1880877-4_outline.pdf

height DACU PCB – main PCB	4.3mm (components on BOT)
thickness DACU PCB	1.6mm
height above DACU PCB	8.0mm (components on TOP)
Control and sensor connection	Single Row Through Header D01-992xx01



1.3 Environmental conditions

Operating temperature range: -20 ... +85°C

Storage temperature -30 ... +90°C

Protection class IP 00