

Status DUNE Hardware Database

DUNE Photosensor WG Meeting (DUNE-SP-PDS)
January 14th, 2025

- The configuration and testing of the latest version of the script to upload the tables to DUNE HWDB has been done by Prague, Granada and Ferrara.

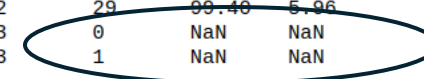
As mentioned in the last meeting :

- We found that tables should not contain blank spaces, especially key values. Some data will be ignored by the script and not uploaded into the database.

Fwd	ROOMT	Hamama	Rq	4	108,51	6,51	101,24
Fwd	ROOMT	Hamama	Rq	5	100,89	6,05	101,24
Fwd	ROOMT	Hamama	Rq	0	99,98	6	93,7967
Fwd	ROOMT	Hamama	Rq	1			
Fwd	ROOMT	Hamama	Rq	2			
Fwd	ROOMT	Hamama	Rq	3			
Fwd	ROOMT	Hamama	Rq	4			
Fwd	ROOMT	Hamama	Rq	5			
Fwd	ROOMT	Hamama	Rq	0	94,73	5,68	95,2167
Fwd	ROOMT	Hamama	Rq	1	92,55	5,55	95,2167
Fwd	ROOMT	Hamama	Rq	2	99,39	5,96	95,2167
Fwd	ROOMT	Hamama	Rq	3	95,72	5,74	95,2167
Fwd	ROOMT	Hamama	Rq	4	95,86	5,75	95,2167



002395	3	2	26	88.44	5.31
002395	4	2	27	96.53	5.79
002395	5	2	28	93.93	5.64
002395	6	2	29	99.40	5.96
002396	1	3	0	NaN	NaN
002396	2	3	1	NaN	NaN
ARDU 0					
MEAN = 93.34					
ST. DEV = 2.08					
ARDU 1					
MEAN = 95.10					
ST. DEV = 4.69					
ARDU 2					
MEAN = 97.90					
ST. DEV = 7.33					
ARDU 2					
MEAN = NaN					
ST. DEV = NaN					
MEAN (Total) = NaN					
ST. DEV (Total) = NaN					



- Mean Key value is the same: date and Location



SiPM Mass Test Results

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
SiPM_Strip_ID	Date	Location	Operator	Normal_Cy	Polarization	Temperature	R_cable	R_eff	M_Loc	V	I	I_Err	range	nominal	Status	Comment
16550	21-11-2024-08:32 UTC	Granada	Fernando Fuente	0	Fwd	ROOMT	0,095	0,22	0	[0.39976;	[0.00288;	[2.61049;	0,75	1	Success	
16550	21-11-2024-08:32 UTC	Granada	Fernando Fuente	0	Rev	ROOMT	0,095	0,22	0	[49.9999;	[0.00012;	[2.7523425148529246e-06;			Success	

"key": ["Date", "Location", "Polarization"]

IV SiPM Characterization

A	B	C	D	E	F	G	H	I	J	K	L	M	N
M_Strip	Date	Location	Operator	Normal_Cy	Polarization	Temperature	Manufact	Measured_Attribute	M_Loc	Result	result_Err	Avg_Result	
16550	21-11-2024-08:32 UTC	Granada	Fernando	0	Fwd	ROOMT	Hamama	Rq	0	94,44	5,67	94,1267	
16550	21-11-2024-08:32 UTC	Granada	Fernando	0	Rev	ROOMT	Hamama	Vbd	0	50,8	0,03	50,8317	

"key": ["Date", "Location", "Measured_Attribute"]

Ubicación: /DUNE-HWDB-Python-1.2.0/DEMO/SiPM_Test/

Nombre

demo-1test	docket.py
demo-2	docket.py



Part Type ID :Z00100300029

Part Type ID :D00400300001

Part Type ID of the PDS in the development version of HWDB.

keep an eye on:



Edit Item **Z00100300029**-01601

QR	LOCATION LOG	SPECS LOG	STRUCTURE LOG	CONTAINER LOG	TEST LOG	IMAGES
Component Type	Z.Sandbox.HWDBUnitTest.fribble					
Part ID	Z00100300029-01601-IT063					
Location						
Serial Number	6966					
Country of Origin	Italy					
Resp. Institution	Istituto Nazionale di Fisica Nucleare Sezione di Milano Bicocca					
Manufacturer	Hamamatsu Photonics					
Created	2025-01-10 09:47:21					
Created by	Maritza Delgado					
Specs Version	0					
Comments						
Component Status	available					
Contained in	N/A					
Specifications						

Vendor	HPK
Test_Box_ID	Mib4
Tray_Number	63
Documentation	https://www.hamamatsu.com/jp/en/product/optical-sensors/mppc.html
SiPM_Strip_ID	6966
Vendor_Box_Number	20
Vendor_Delivery_ID	HPK_Ciemat_04

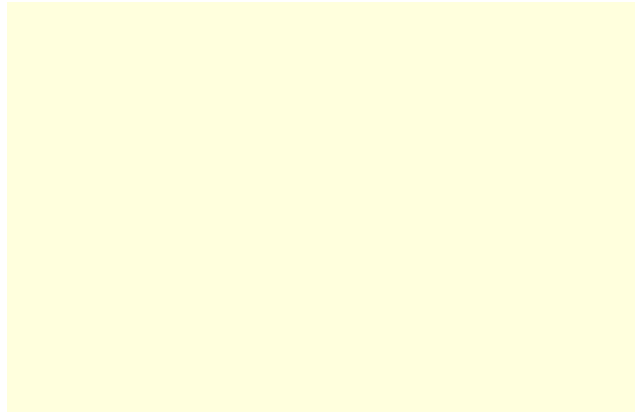
keep an eye on:

Test history for [Z00100300029-01601](#)



Test_type_name	Created	Creator	Test_data	Test_spec_version	Comments
SIPM Mass Test	2025-01-10 09:47:32.031734-06:00	Maritza Delgado	<pre>DATA: - Date: 02-08-2024-10:15 UTC SiPM: - _meta: keys: - SiPM_Location - Result - Result_Err - Strip_Avg_Result Result: 141.91 Result_Err: 8.51 SiPM_Location: 0 Strip_Avg_Result: 132.411666666667 - _meta: keys: - SiPM_Location - Result - Result_Err - Strip_Avg_Result Result: 126.47 Result_Err: 7.59 SiPM_Location: 1 Strip_Avg_Result: 132.411666666667 - _meta: keys: - SiPM_Location - Result - Result_Err - Strip_Avg_Result Result: 126.28 Result_Err: 7.58 SiPM_Location: 2 Strip_Avg_Result: 132.411666666667</pre>	0	

keep an eye on:



Location: Milano Bicocca
Operator: Andrea Falcone; Claudia Brizzolari; Francesco Terranova; Luca Meazza;
Maritza Delgado; Maurizio Perego
Temperature: ROOMT
Manufacturer: Hamamatsu Photonics
Polarization: Fwd
Thermal_Cycle: 0
Measured_Attribute: Rq
- Date: 02-08-2024-10:52 UTC



Test history for [Z00100300029-01601](#)

ADD NEW TEST...

Test_type_name	Created	Creator	Test_data	Test_spec_version	Comments
SIPM Mass Test	2025-01-10 09:47:32.031734-06:00	Maritza Delgado	DATA: - Date: 02-08-2024-10:15 UTC SiPM:	0	

If everything is correct and all Excel tables have the same settings, it is now possible to upload them into Part type ID "D00400300001".