

# Pemba Tide Gauge

## **Summary:**

Station Name:	Pemba
Country:	Mozambique
Latitude of measuring point:	12° 58.0' S
Longitude of measuring point:	40° 29.3' E
Time Reference:	GMT (hours 00-23)
Contributor:	INAHINA
Observational period:	19 April 2007 to 30 April 2009

## **Instrumentation:**

Primary Channel: OTT Kalesto Radar Sensor

## **Datum Information:**

All data refer to local Chart Datum.

## **Benchmarks:**

<b>Benchmark</b>	<b>Description</b>
TGBM	Near the tide gauge
MN1 (1964)	Plate fixed on the pavement in the SW end of the harbour
Stilling Well Contact Point	Stilling Well Contact Point
MN4 (1970)	On the stairs inside the harbour
MN2 / PN1964	Bronze plate fixed in first step at the main entrance of Maritime Administration Building South- East side.
PN09	Side entrance of Clube Ferroviario's building
PN02	Installed on the cement support of the telecommunication closet on the street perpendicular to the INAHINA road
INA	To the left of the main entrance of INAHINA office
PN06	Installed on the cement support of the telecommunication closet on the side of the market building
PN07	Installed on the top edge of seating structure adjacent to the staircase
PMBA	GNSS installation, on roof of INAHINA building

## **Datum Relationships:**

Chart Datum = 5.722m below TGBM

Chart Datum = 5.710m below MN1

Chart Datum = 6.510m below Stilling Well Contact Point

Chart Datum = 4.096m below MN4

Chart Datum = 6.507m below MN2 / PN1964

Chart Datum = 7.268m below PN09

Chart Datum = 11.076m below PN02

Chart Datum = 14.262m below INA

Chart Datum = 23.780m below PN06

Chart Datum = 34.932m below PN07

Chart Datum = 18.755m below PMBA

### ***Quality Assessment***

All data have been compared with the current Harmonic Constants library, and residuals checked. Records have been visually inspected for spikes and datum shifts.

A strong tidal signal is present in the residuals.

Large gaps appear in the data over the following intervals

**Missing data start (dd/mm/yyyy HH:MM)**

15/07/2008 21:11

17/09/2009 08:28

**Missing data end (dd/mm/yyyy HH:MM)**

23/07/2008 08:27

End of series