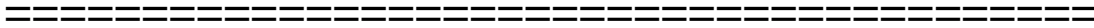


**Operationally desirable accuracy of measurement of
Wind, Temperature, Dew point and Pressure:**

Sr.No.	Parameter	Desirable Accuracy
1	Wind Direction	$\pm 10^\circ$
2	Wind Speed	$\pm 1\text{kt up to } 10\text{ kts}$
		$\pm 10\%$ above 10 kts
3	Air temperature and dewpoint	$\pm 1^\circ\text{C}$
4	Pressure (QFE/QNH)	$\pm 0.5\text{ hPA}$

Field test report on the calibration and inter comparison with travelling standard kit observations



1. Name of instrument/sensor:
2. Serial Number:
3. Make and model:
4. Field observations:

Date & Time	Observed Value on the sensor or in datalogger (unit)	Value in travelling standard kit (unit)	Difference (unit)
		Mean difference	
		Accuracy as per ICAO	

Remarks:

- i) The above instruments/sensor are field tested against Travelling standards traceable to the standards maintained at Surface laboratory, Surface Instruments Division, CRS, Pune.
- ii) Above field test report is valid for **One year**.

Place:

Date of Issue:

Signature of Calibration/Field test team

Procedure

Ref: As per Page no. 80, IMD SOP- 2024

Field test report on the calibration and inter comparison with travelling standard kit observations

1. Name of instrument/sensor: Sensor Name
2. Serial Number: XXXXXXXX0001
3. Make and model: ABC001
4. Field observations: Are as follows

Date & Time (UTC)	Observed Value on the sensor or in datalogger (unit)	Observed value in travelling standard kit (unit)	Difference(unit)
(T)	(S)	(K)	(D)
DD/MM/YYYY; HHMM	S1	K1	$D1 = S1 - K1$
DD/MM/YYYY; HHMM	S2	K2	$D2 = S2 - K2$
DD/MM/YYYY; HHMM	S3	K3	$D3 = S3 - K3$
DD/MM/YYYY; HHMM	S4	K4	$D4 = S4 - K4$
		Mean difference	MD
		Accuracy as per ICAO	As mentioned in Page no. 79, IMD SOP 2024

- i) **Date and Time (T):** The date should be mentioned in DD/MM/YYYY format.
Time should be in UTC in HHMM format.
- ii) **Observed Value on the sensor or in Datalogger (S):** Value observed in the sensor or in the data logger. Let it be S1, S2.... S4.
- iii) **Value in travelling standard kit (K):** This is the value observed on the travelling standard kit.
Let it be K1, K2.... K4.
- iv) **Difference (Dn) = Observed Value on the sensor or in Datalogger (Sn) - Value in travelling standard kit (Kn) where n=1,2,3,4**

v) **Mean Difference (MD) =**
$$\frac{D1+D2+D3+D4}{4}$$

Example 1

Annexure II

Field Test Report on the calibration and inter comparison with Travelling Standard Kit observations

1. Name of instrument/sensor: **Temperature**
2. Serial Number: XXXXXXXX0002
3. Make and Model: ABC002
4. Field observations:

Date and time	Observed Value on the sensor or in datalogger (°C)	Observed Value in travelling standard kit (°C)	Difference (°C)
06.01.2020; 0830	14.5	14.4	+ 0.1
1130	19.0	18.8	+ 0.2
1430	21.0	21.2	- 0.2
1730	17.1	17.0	+ 0.1
		Mean difference	+ 0.1
		Accuracy required as per ICAO	± 1

1. Name of instrument/sensor: **Dew Point**
2. Serial Number: XXXXXXXX0003
3. Make and Model: ABC003
4. Field observations:

Date and time	Observed Value on the sensor or in datalogger (°C)	Observed Value in travelling standard kit (°C)	Difference (°C)
06.01.2020; 0830	13.0	13.2	- 0.2
1130	12.4	12.6	- 0.2
1430	13.2	13.0	+ 0.2
1730	11.4	11.6	- 0.2
		Mean difference	- 0.1
		Accuracy required as per ICAO	± 1

Remarks:

- i) The above instruments/sensor are field tested against Travelling standards traceable to the standards maintained at Surface laboratory, Surface Instruments Division, CRS, Pune.
- ii) Above field test report is valid for **One year**.

Place:

Date of Issue:

Signature of Calibration/Field test team

Example 2

Field Test Report on the calibration and inter comparison with Travelling Standard Kit observations

1. Name of instrument/sensor: **Wind Direction**
2. Serial Number: XXXXXXXX0004
3. Make and Model: ABC004
4. Field observations:

Date and time	Observed Value on the sensor or in datalogger (deg.)	Observed Value in travelling standard kit (deg.)	Difference (deg.)
11.06.2020; 0830	081	080	+1
1130	102	100	+2
1430	107	110	- 3
1730	068	070	- 2
		Mean difference	- 1
		Accuracy required as per ICAO	± 10

1. Name of instrument/sensor: **Wind Speed**
2. Serial Number: XXXXXXXX0005
3. Make and Model: ABC005
4. Field observations:

Date and time	Observed Value on the sensor or in datalogger (knots)	Observed Value in travelling standard kit (knots)	Difference (knots)
11.06.2020; 0830	6.2	6.0	+0.2
1130	4.9	5.0	-0.1
1430	3.8	4.0	- 0.2
1730	4.4	4.5	- 0.1
		Mean difference	-0.1
		Accuracy required as per ICAO	± 1kt up to 10kts ± 10% above 10 kts

Remarks:

- i) The above instruments/sensor are field tested against Travelling standards traceable to the standards maintained at Surface laboratory, Surface Instruments Division, CRS, Pune.
- ii) Above field test report is valid for **One year**.

Place:

Date of Issue:

Signature of Calibration/Field test team

Field Test Report on the calibration and inter comparison with Travelling Standard Kit observations

1. Name of instrument/sensor: **Temperature**
2. Serial Number:
3. Make and Model:
4. Field observations:

Date and time	Observed Value on the sensor or in datalogger (°C)	Observed Value in travelling standard kit (°C)	Difference (°C)
		Mean difference	
		Accuracy required as per ICAO	± 1

1. Name of instrument/sensor: **Dew Point**
2. Serial Number:
3. Make and Model:
4. Field observations:

Date and time	Observed Value on the sensor or in datalogger (°C)	Observed Value in travelling standard kit (°C)	Difference (°C)
		Mean difference	
		Accuracy required as per ICAO	± 1

Remarks:

- i) The above instruments/sensor are field tested against Travelling standards traceable to the standards maintained at Surface laboratory, Surface Instruments Division, CRS, Pune.
- ii) Above field test report is valid for **One year**.

Place:

Date of Issue:

Signature of Calibration/Field test team

Field Test Report on the calibration and inter comparison with Travelling Standard Kit observations

1. Name of instrument/sensor: **Wind Direction**
2. Serial Number:
3. Make and Model:
4. Field observations:

Date and time	Observed Value on the sensor or in datalogger (deg.)	Observed Value in travelling standard kit (deg.)	Difference (deg.)
		Mean difference	
		Accuracy required as per ICAO	± 10

1. Name of instrument/sensor: **Wind Speed**
2. Serial Number:
3. Make and Model:
4. Field test observations:

Date and time	Observed Value on the sensor or in datalogger (knots)	Observed Value in travelling standard kit (knots)	Difference (knots)
		Mean difference	
		Accuracy required as per ICAO	± 1kt up to 10kt ± 10% above 10 kts

Remarks:

- i) The above instruments/sensor are field tested against Travelling standards traceable to the standards maintained at Surface laboratory, Surface Instruments Division, CRS, Pune.
- ii) Above field test report is valid for **One year**.

Place:

Date of Issue:

Signature of Calibration/Field test team

Field Test Report on the calibration and inter comparison with Travelling Standard Kit observations

1. Name of instrument/sensor: **Pressure**
2. Serial Number:
3. Make and model:
4. Field observations:

Date & Time	Observed Value on the sensor or in datalogger (hPa)		Observed Value in travelling standard kit(hPa)		Difference(hPa)	
	QFE	QNH	QFE	QNH	QFE	QNH
				Mean difference		
				Accuracy required as per ICAO	± 0.5	±0.5

Remarks:

- i) The above instruments/sensor are field tested against Travelling standards traceable to the standards maintained at Surface laboratory, Surface Instruments Division, CRS, Pune.
- ii) Above field test report is valid for **One year**.

Place:

Date of Issue:

Signature of Calibration/Field test team