

Manual for

Handheld Anemometer W41

Catalog No. 7725-00/7725-10

Handheld Combination Anemometer W419

Catalog No. 7735-00/7735-10

Read this manual thoroughly before use, and keep it for future reference.

Overview

SK Sato's Handheld Anemometer W41 and Handheld Combination Anemometer W419 consist of a cup turbine on a shaft and an AC generator connected below. The rotation of the turbine generates electricity to allow a moving coil voltmeter beneath the generator to indicate the instantaneous wind speed proportional to the voltage.

For W419, a vane connected directly to a scale plate rotates to indicate the cardinal direction.

Remote measurement is available if an optional remote cable is added to the unit.

Specifications

Product name	Handheld Anemometer	Handheld Combination Anemometer
Model name	W41	W419
Catalog no.	7725-00 / 7725-10	7735-00 / 7735-10
Parts	Refer to Figure 1, 4 (Figure 5 for the optional cable)	Refer to Figure 2, 4 (Figure 6 for the optional cable)
Starting speed	Less than 1.5 m/s	
Measurement range	2 to 30 m/s	
Accuracy	±1 m/s (≤ 10 m/s) ±10% rdg (≥ 10 m/s)	
Wind direction		10 degrees per scale 8 cardinal points printed
Body color	Black	
Weight	660 g	900 g
Remote cable (Optional)	Length up to 1000 m is available upon request. The indication value will decrease by 0.5% per km of extension of the cable with a sectional area of 0.55 mm ² .	

How to Use

Wind Speed

1. Assemble the parts according to Figure 1 to measure the wind speed at the position where the user is. This is the initial layout when unpacked.
2. Assemble the parts according to Figure 5 or 6 to measure the wind speed remotely if the optional cable is supplied with the device.
Particularly, connect the grip on the end of the cable with the generator via the right-hand thread attached to the grip, then insert a plug on the other end of the cable into a socket in the bottom of the indicator.
3. Ensure that the unit is held vertically.

• Wind Direction (W419 only)

1. Assemble the parts according to Figure 3 to measure the wind speed and direction together at the position where the user is.
2. Assemble the parts according to Figure 6 to measure the wind speed remotely along with the wind direction.

Note that the unit is not designed to indicate the wind direction remotely.

3. Align the ∇ mark on the scale plate to the north. It is recommended that the user faces south and places the unit so that the ∇ mark comes to the front of the face.
4. Read the angular value under the ∇ mark when the vane aligns with the wind direction.



Cautions

- The unit is resistant to rainwater. However, do not lay it horizontally or at an angle up to 45 degrees from the horizontal in the rain or when the unit is heavily exposed to water. After wiping off the water, the unit may be stored horizontally or upside-down.
- Do not drop or subject the unit, especially the indicator, to shock.
- Do not apply pressure to the window of the indicator.

Warranty Policy

This product is warranted to be free from defects for one year from the date of delivery. If repair is required within this period, return the product to us on a freight-prepaid basis. Repairs will be performed free of charge if the defect is not due to misuse, force majeure, or transportation not arranged by us. The cause of defects shall be determined solely by us.

Out-of-warranty repairs are available for a fee upon request.

Kindly obtain authorization before returning the product.

For details, contact us or the retailer from which the product was purchased.

SK Sato (Sato Keiryoki Mfg. Co., Ltd.)

3-4, Kanda-kajicho, Chiyoda-ku, Tokyo 101-0045, Japan

<https://www.sksato.co.jp/en/>

Figure 1

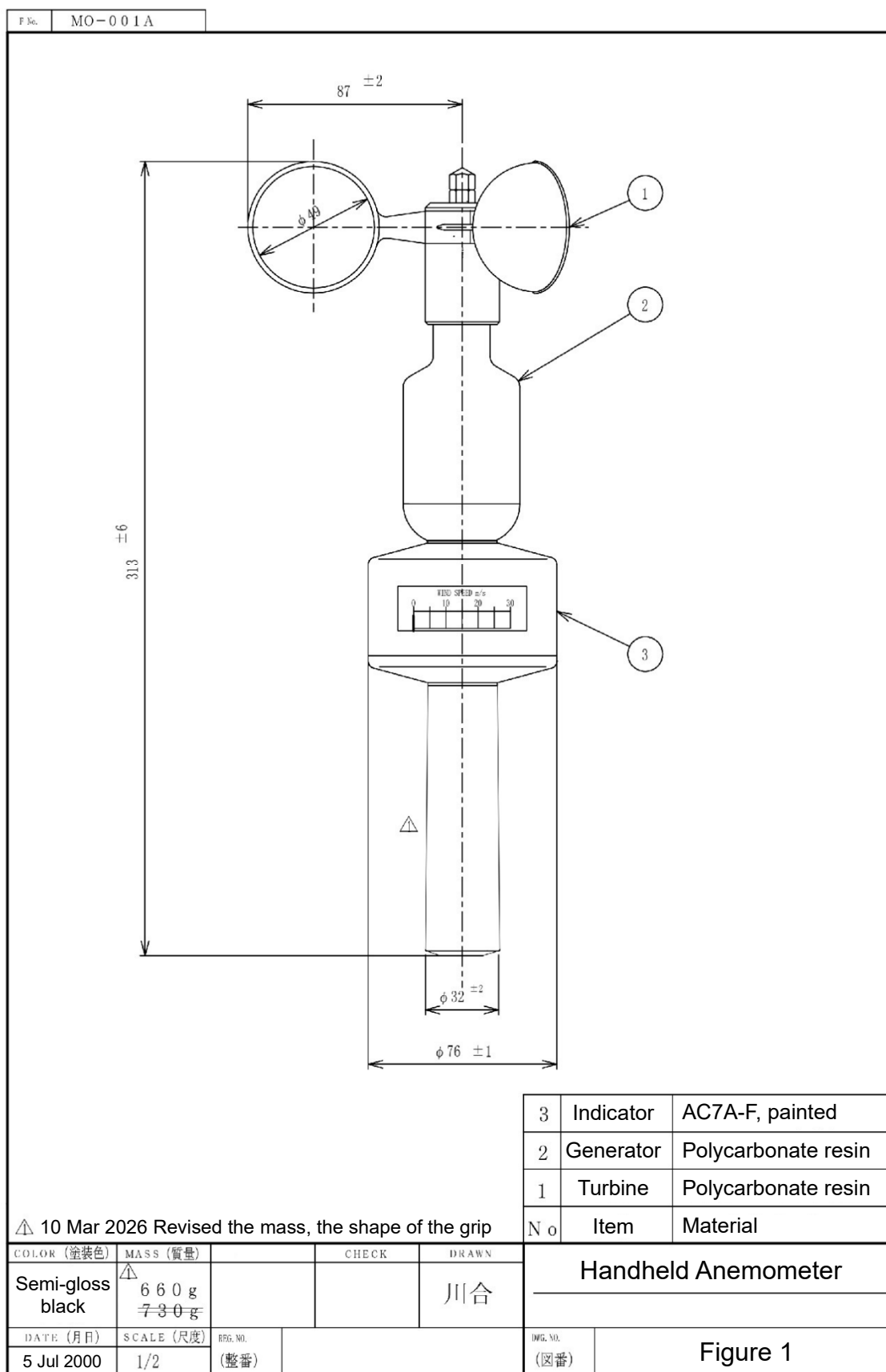
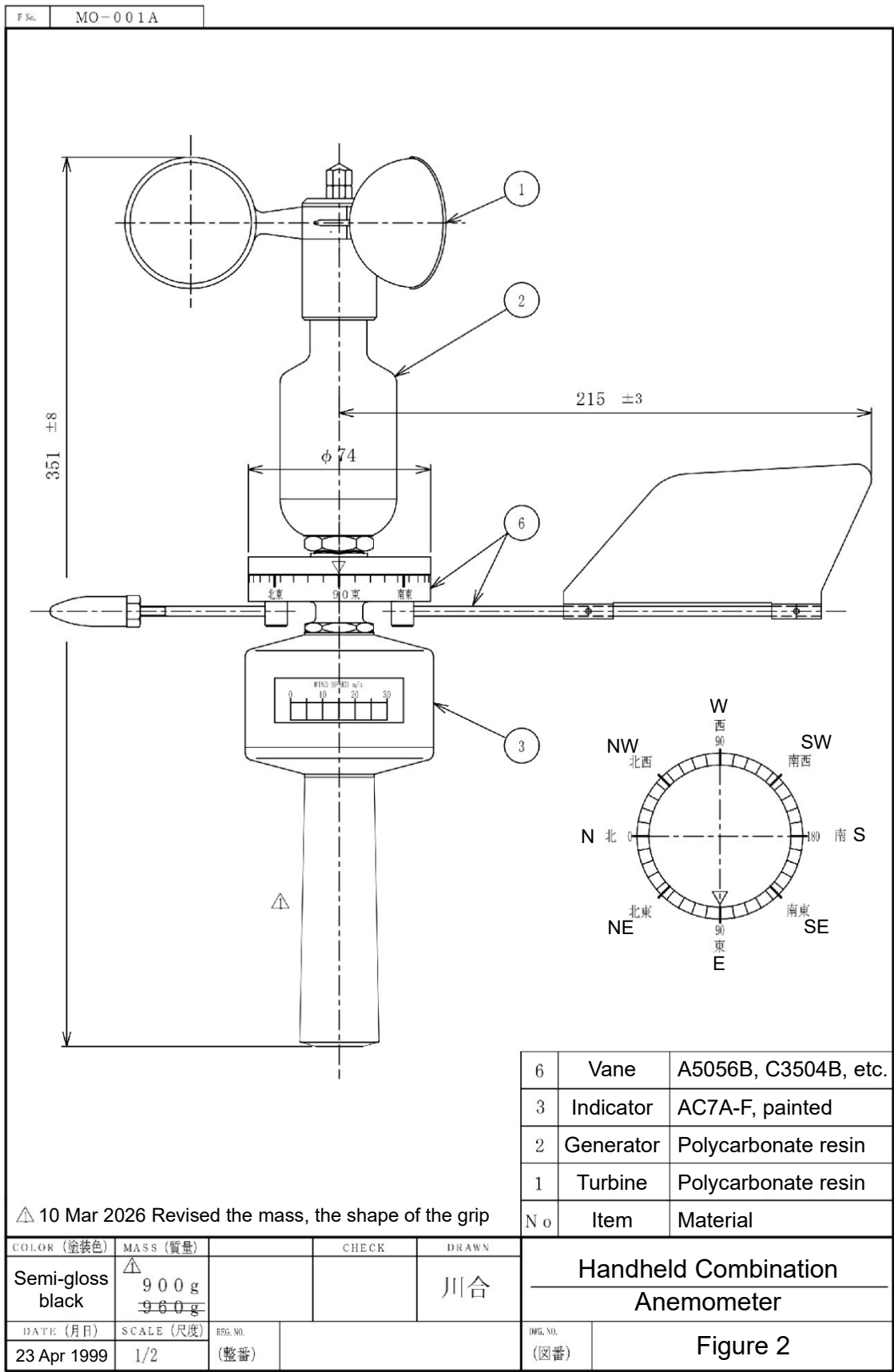
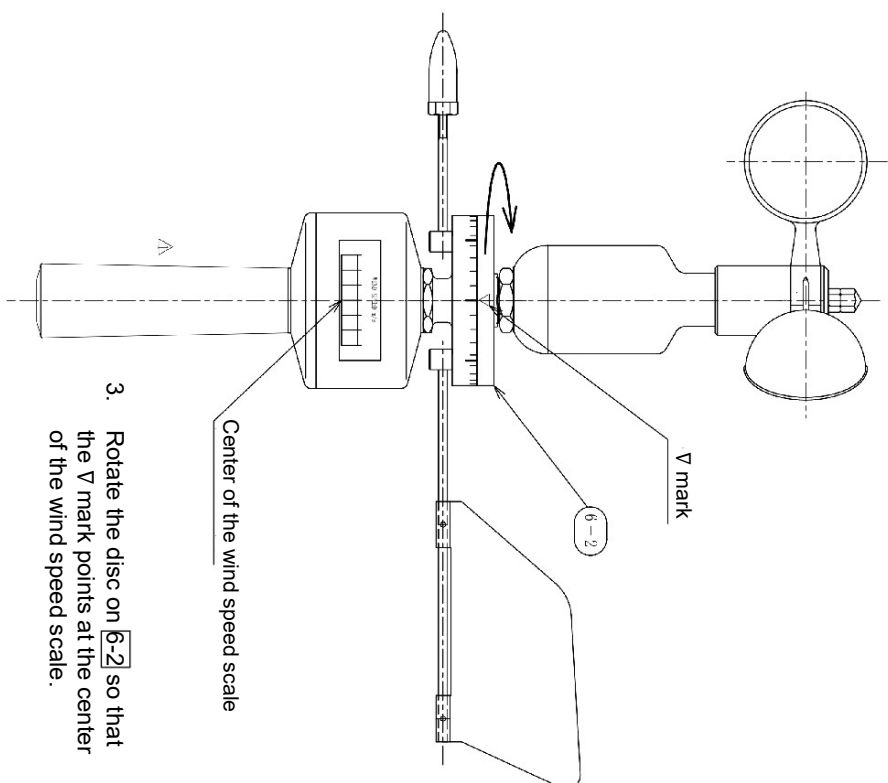
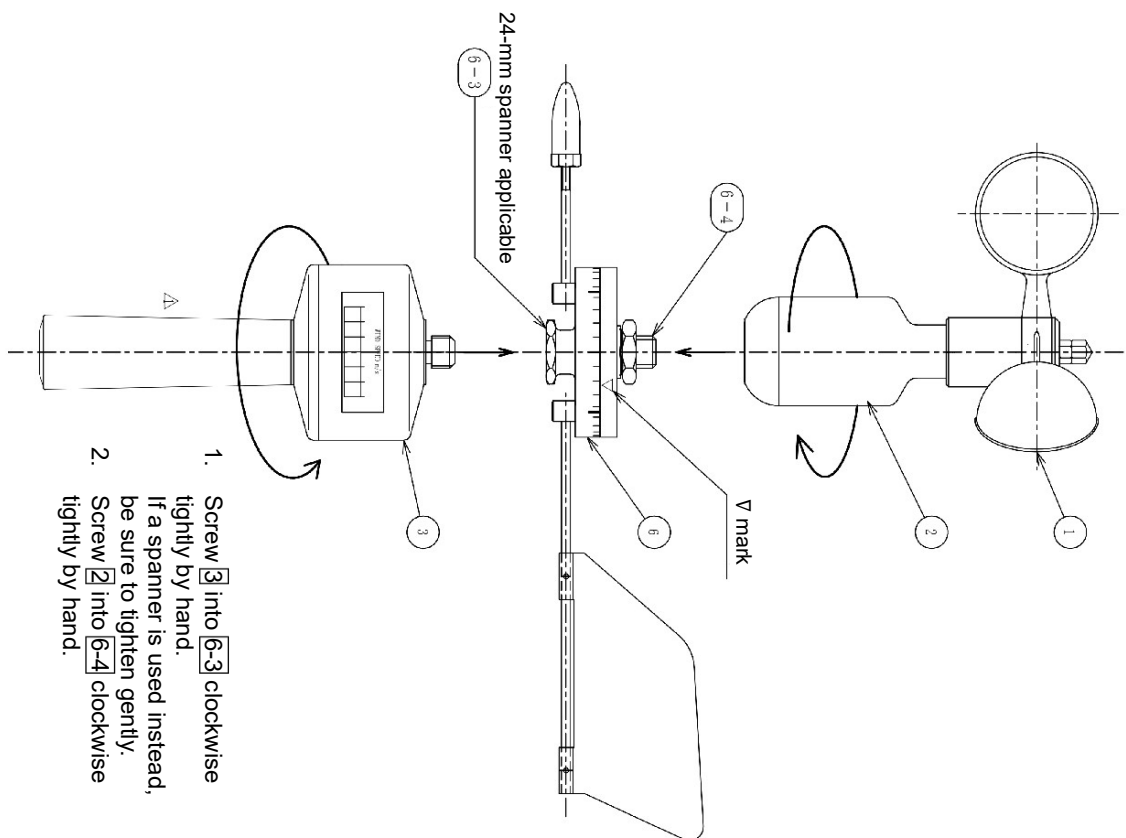


Figure 2





COLOR (塗色)	WASS (重量)	CUT-CA	TH-3W	How to Install	
DATE (年月)	SCALE (尺数)	川合		Vane Part	
23 Apr 1999	1/2	20W (警告)		Figure 3	

Figure 3

Figure 4

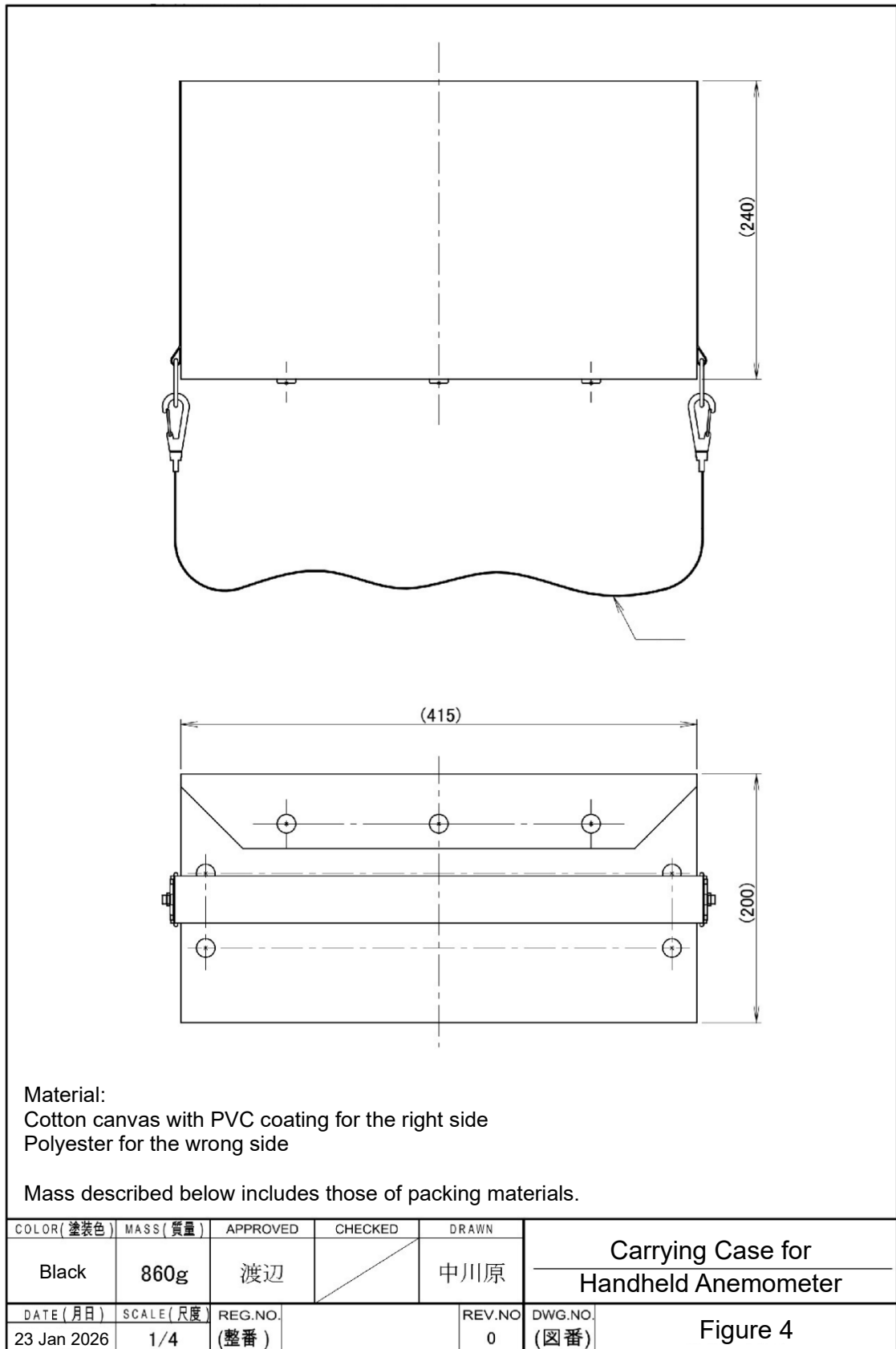


Figure 5

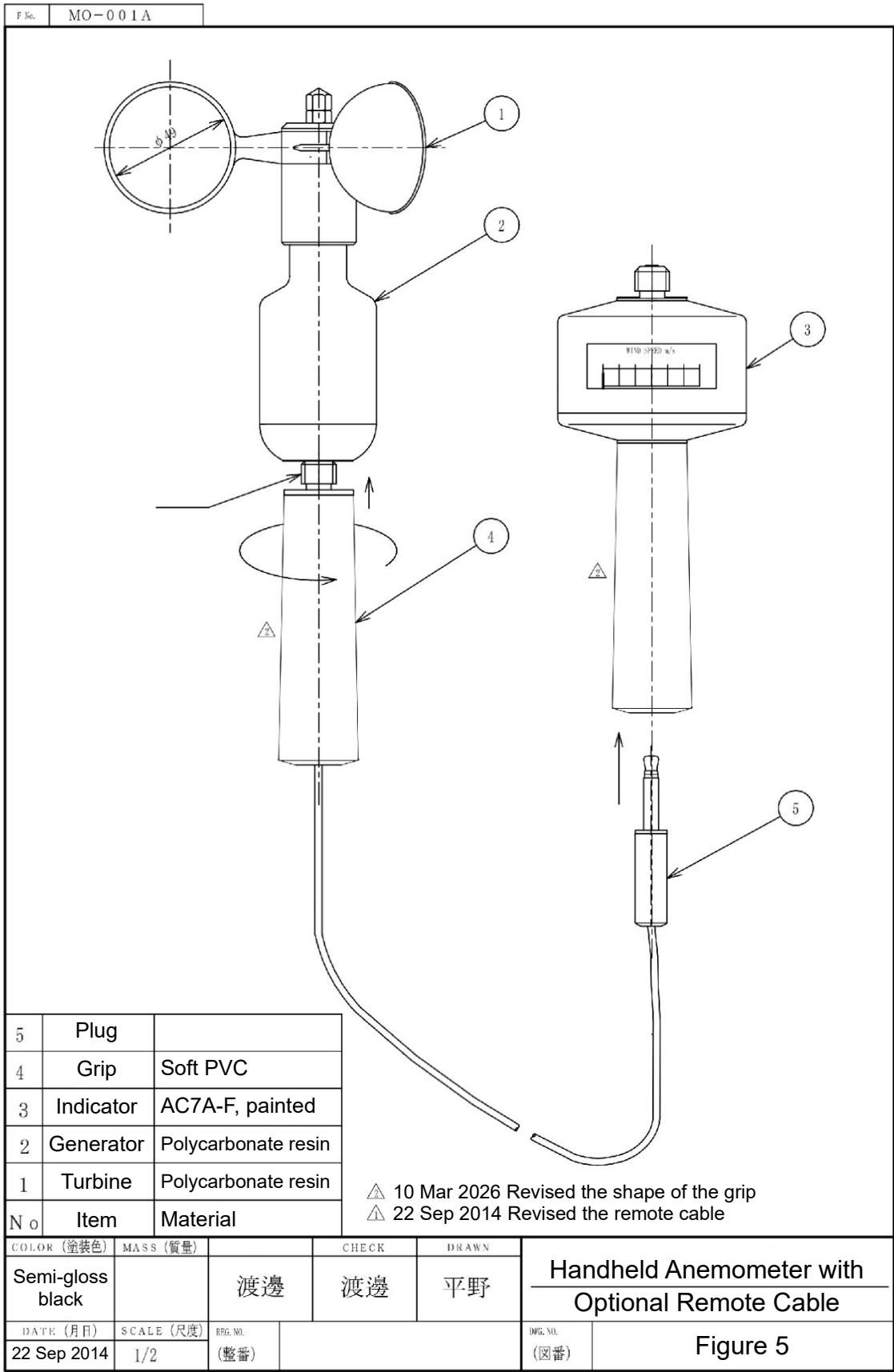


Figure 6

