

UTM Sensor Calibration

Set the sensor **mV/inch** value for the product in the tank. The monitor converts the sensor signal into a level reading — the right mV/inch keeps that reading accurate. Calibrations don't need to land exactly on target; anywhere inside the acceptable range is good.

THE FORMULA

$$SG \times 25.4$$

mV/inch = specific gravity of the product × 25.4 (water = 1.000).

TOLERANCE

$$\pm 2 \text{ mV/inch}$$

The acceptable window around each target. No need to hit it exactly.

OAR SETTING

$$\text{Fixed} \cdot 500$$

For UTM's the OAR is always 500 — never change it.

REF Calibration values by product

PRODUCT	SPECIFIC GRAVITY	TARGET MV/INCH	ACCEPTABLE RANGE
Gasoline	0.74	18.80	16.80 – 20.80
Kerosene	0.786	19.96	17.96 – 21.96
Methanol	0.8	20.32	18.32 – 22.32
Diesel	0.82	20.83	18.83 – 22.83
ATF — Auto Transmission Fluid	0.86	21.84	19.84 – 23.84
Hydraulic Fluid	0.87	22.10	20.10 – 24.10
Standard Lubes	0.88	22.35	20.35 – 24.35
Washer Fluid	0.96	24.38	22.38 – 26.38
Glycol	0.99	25.15	23.15 – 27.15
Water	1	25.40	23.40 – 27.40
Anti-Freeze	1.056	26.82	24.82 – 28.82
DEF — Diesel Exhaust Fluid	1.09	27.69	25.69 – 29.69
Bleach	1.2	30.48	28.48 – 32.48
Molasses	1.35	34.29	32.29 – 36.29
iLiquid Anionic	1.4	35.56	33.56 – 37.56

HOW Calibrating in four steps

1

Verify the sensor

In Unify, find the serial number on the Devices tab and confirm the Sensor Interface Box. Pick the correct sensor option if it isn't already set.

2

Find your product

Look it up in the table above. Note the target mV/inch and its acceptable range.

3

Enter the value

Set the sensor mV/inch in Unify. Keep OAR fixed at 500. Land inside the range — exact target not required.

4

Confirm the reading

Check the device level against the actual tank level. If it's off, re-check the product's SG and the sensor box before re-adjusting.

Product not in the table?

Ask the customer for the product's specific gravity — it's usually on the Material Safety Data Sheet (MSDS), or can be found online. Then calculate it yourself: **mV/inch = SG × 25.4**. The acceptable range is that result ± 2 mV/inch.