



METEORTEC HYDROMETEOROLOGICAL STATION

DESCRIPTION

The TECMES METEORTEC Station is a robust and compact unit for reliable and continuous measurement of meteorological and hydrological parameters, both analog and digital. Easy to install and expand to customer needs, it is fully configurable locally and remotely, with multiple communication ports for operation and telemetry. It is basically made up of the TS 2631 Remote Terminal Unit, which forms a data acquisition, processing and storage unit. The channel for level measurement has a wave filter to allow accurate measurement of it, regardless of oscillations or waves on the surface of the liquid. In addition, its 24-bit digital analog converter, with automatic zero and gain calibration, ensures excellent sensitivity and accuracy. This station is easily configurable for network operation, with communication systems such as satellite (Orbcomm, linnmersat, Goes, Argos, etc.), radio modems in UHF, VHF, and Spread Spectrum, telephony, MODEM, etc.



Typical sensors configurable in the Station
METEORTEC

Wind (Direction and Speed)	TS231 / TS232
Humidity and temperature	TS 251-T
Soil / water temperature	TS 247/265
Soil moisture	TS 254
Solar radiation	TS 301 / 302/304
Atmospheric pressure	TS 290
Precipitation	TS 221
Pressure level	TS 312-P
Float level	TS 310F
Water quality sensors	TS 280/282/320

SPECIFICATIONS Remote Terminal Unit TS 2631:

	Range	Accuracy
SENSORS		
Wind Intensity TS 231	60 m / s	1% Fe
Wind Direction TS 232	0 - 360°	3°
Heater Mod. AS 233		
Humidity and Ambient Temperature TS 251-T	30 at + 50 ° C / -20 at + 50 ° C	+/- 0.3 ° C
Accessories: Sunscreen Model AS 250	0-100% RH	+/- 3%
Soil moisture per dielectric constant TS 254	0-100%	
Soil Temperature TS 254	-30 ° to 50 ° C	+/- 0.25 ° C over the entire range
Soil / water temperature TS 247/265	-10 ° to 50 ° C	+/- 0.25 ° C over the entire range
Solar Radiation TS 301/302/303		
Accessories: AS 237 Multiple Support		
Atmospheric pressure TS 290	600 at 1100 mb	+/- 0.5 mB
Precipitation TS 221		+/- 1% at 25 mm / h
Accessories: AS 221 Mounting Bracket		
Pressure level TS 312-P	0-1, 0-6, 0-10, 0.20, 0-50	+/- 0.1% Fe
Float pressure and counterweight level TS 310-F	0-1, 0-6, 0-10, 0.20, 0-50	+/-0,1%Fe(+/-0,25% para 0-1 m)

Other sensors are available for direct connection at the Station, such as water quality, ultrasound level, flow due to doppler effect, snow height, etc.

16 analog inputs
24-bit digital analog converter with autozero and gain
8 digital inputs (1 pulse counter, 1 frequency)
2 digital outputs

Data memory: 4 Mbit non-volatile Flash type
RS 232 / RS485 / SDI12 communication ports
Protection against electric shock on all inputs and outputs.
Communication with satellite systems, radiomodems, etc.

**Other specifications and ranges available upon request.*