



Securing your weather data with message authentication

We verify radiosonde messages with cryptographically generated Message Authentication Codes (MACs) to prevent tampering or falsification.

Uses HMAC-SHA256,
a widely trusted
cryptographic standard

RS41-SGM radiosondes
encrypt data, for
extra security

Other RS41 models prevent
tampering with authentication
codes but do not encrypt data

1

A secret key is
generated for
each sounding



2

The key is securely
shared with the
radiosonde during
ground check



3

Radiosonde adds
authentication codes to
all sent messages



4

The ground station
validates messages
and discards
unauthenticated ones

