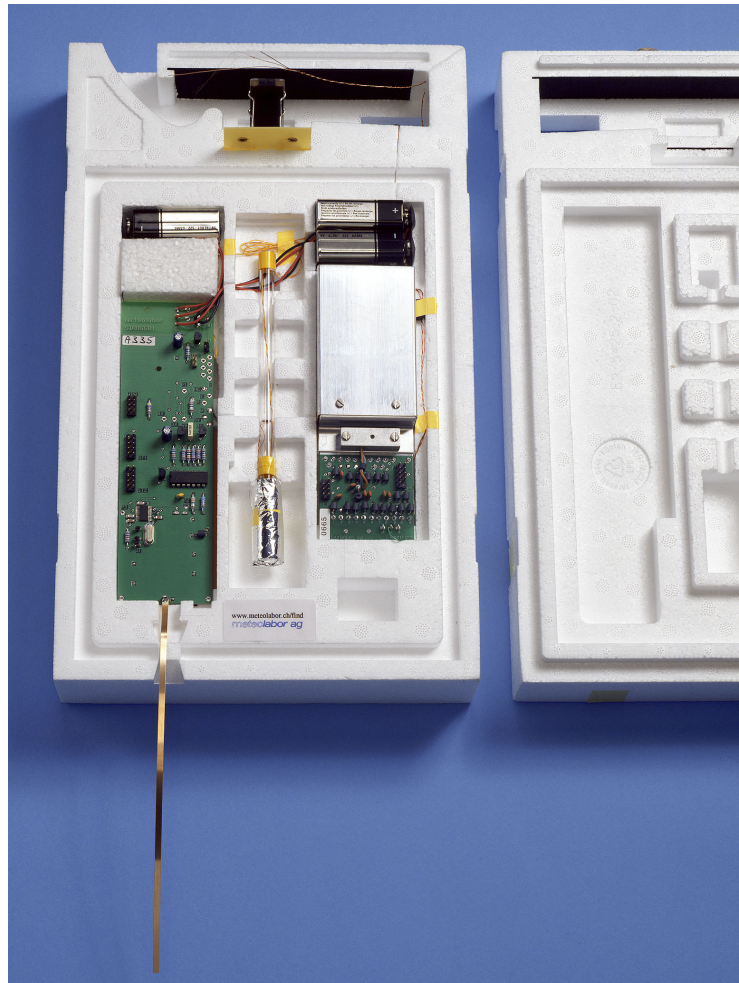


# Radiosonde SRS-C34 Type 5

PTU-Sonde with two spare channels for ARGUS37



SRS-C34 Type 5

The Sonde SRS-C34 Type 5 contained a high-quality measuring unit with full-range water hypsometer, temperature sensor with small time constant, humidity sensor Hygristor, as well as two spare channel (voltage).

The measuring unit has been specifically developed for meteorological research. It is supplied with a transponder for the ARGUS sounding system.

The measuring unit is fully configured and adjusted at **meteolabor ag**. This eliminates elaborate start preparations and calibration procedures. However the Hypsometer pressure measurement accuracy can be improved by a "Base Line Check".

## Data processing and data interface

The controller calculates the physical quantity from its current measured values and the coefficients stored in the controllers

The SRS C34 features a modular design. Thus various other types can be supplied:

Sensors: Hypsometer, thermocouple-thermometer, Hygristor, ozone sensor, SnowWhite®, GPS

Output: ASCII, binary, pulse modulation for secondary radar system, 403MHz FM narrow band crystal controlled synthesized transmitter.

Because of its unique measurement technique SRS-C34 does not need any individual sensor calibration and can easily be used again if recovered.

memory. The output is a serial string containing data, channel number and the checksum.

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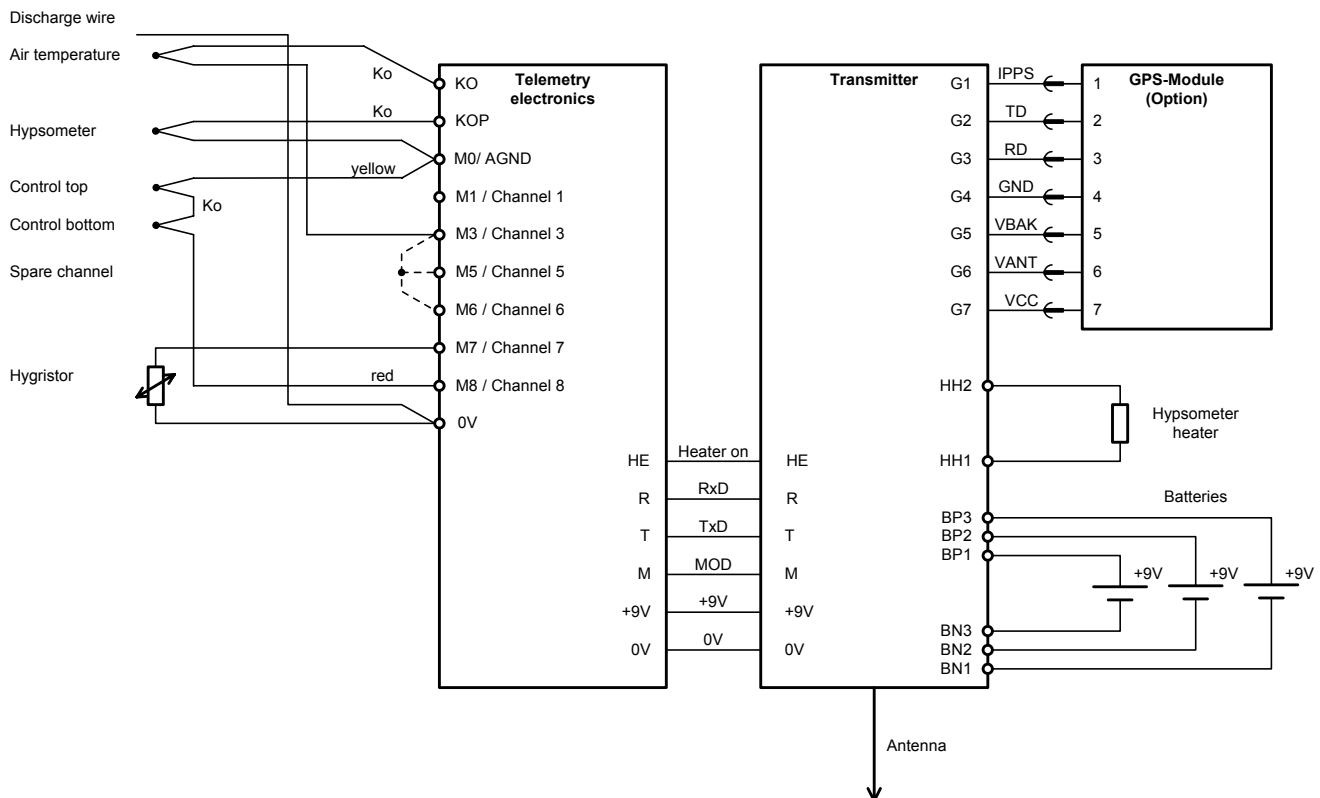
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## Technical data

Measurement channels	Measured variable	Meas. range	Accuracy	Unit
Channel 0	Offset (internal used value)	-	-	-
Channel 1	Barometric pressure	5 ... 1100	0.2 %*)	hPa
Channel 2	Internal reference temperature	-10 ... + 50	±0.1	°C
Channel 3	Air temperature	-100 ... + 60	±0.1	°C
Channel 4	Span (internal used value)	-	-	-
Channel 5	Air temperature	-100 ... + 60	1	°C
Channel 6	Air temperature	-100 ... + 60	±0.1	°C
Channel 7	Hygistor Voltage	- 4 ... 1 x 10 <sup>3</sup>	1	µV
Channel 8	Hypsometer heater (internal used value)			
Channel sequence	0, 1, 2, 3, 4, 5, 6, 7, 8			
Interface	Description		Setting	Unit
Type	AFSK		2900 / 4700	Hz
Baud rate	Transmission speed		2400	bps
Delay t <sub>1</sub>	Time signal TELEM active until 1 <sup>st</sup> start bit		2	ms
Delay t <sub>2</sub>	Time of last stop bit until TELEM inactive		0	ms
TELEM level	Active level of TELEM signal		0	V
Synch characters	Synchronization of data transmission		2 / 255	
Baud rate GPS	Internal interface GPS to SRS-C34		4800	bps
Power supply	Description		Range	Unit
Supply source	2x9V battery 6LR61		8.5 ... 12	V
Power input	Without GPS module		ca. 175	mA
	With GPS module		ca. 230	mA

\*) corresponding abt 20m geopotential accuracy

## Block diagram



## Physical dimensions

Measuring unit	143 x 50 x 25 mm	(l x b x d)
Snow White® Sensor	210 x 260 x 90 mm	(l x b x d)
Hypsometer	15 x 170 mm	(D x l)

## Ordering information

- Sonde without GPS MRS-SRS-C34/007
- Sonde with GPS MRS-SRS-C34/008

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