ELECTRONIC SYSTEMS

HRC-01

9.1.2

Application

- radio remote control of heliport/airport lighting equipment using the standard on-board transmitter
- switching-on FATO, TLOF, APP, PAPI, TWY, RWY lights
- switching-on wind cone illumination
- switching-on flash beacon

Certificate Basis

- ICAO Annex 14 Volume II Heliports
- FAA AC 150 / 5345-49C, L-854, Type I, Air-to-Ground system

Description/properties

- the lighting facility is operated from aircraft by clicking the microphone button (PTT) a specified number of times within a 5-second period as follows:
  - 3 clicks - lighting system energized on the low brightness step
  - 5 clicks - lighting system energized on the medium brightness step
  - 7 clicks - lighting system energized on the high brightness step
- each subsequent valid command will perform the required brightness step
- auto-off after 15 minutes from the last brightness step operation
- user adjustable operating frequency
- independent outdoor, omnidirectional antenna
- possible control and monitoring from a superior system (dry contact input or DAP 128TC transmission line)

Mechanical parameters

- dimensions 320×400×160 mm
- working temperature -20/+55 °C
- storage temperature -20/+55 °C
- humidity max 95 %
- protection IP 54

Electrical parameters

Power

- power supply 180–260 V/47–63 Hz
- maximum input 30 W
- backup battery 12 V

Receiver

- adjustable frequency range 118–136 MHz
- antenna input impedance 50 Ω conector RF Type N
- sensitivity 5 µV/10 dB SINAD

Outputs of remote control of attached devices

- dry contact control, max 20 m
- series communication line, max 100 m

Control and monitoring from a superior system

- dry contact control, max 20 m
- communication line DAP 128TC, max 10 km

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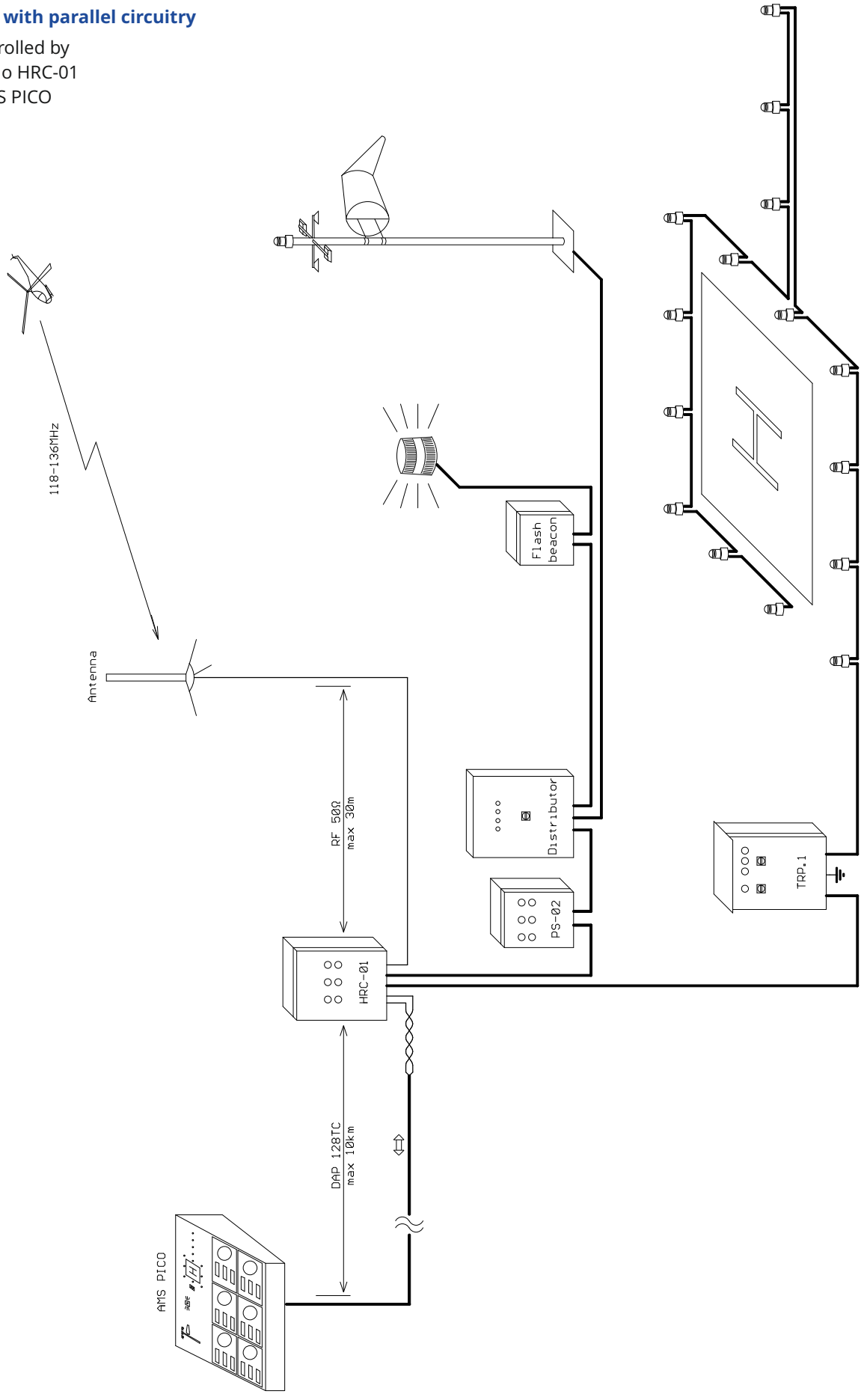
TÜV CERT EN ISO 9001-2001

chapter:

9.1.2 HRC-01

Heliport with parallel circuitry

- Controlled by
  - radio HRC-01
  - AMS PICO



HRC-01

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Heliport with series circuitry

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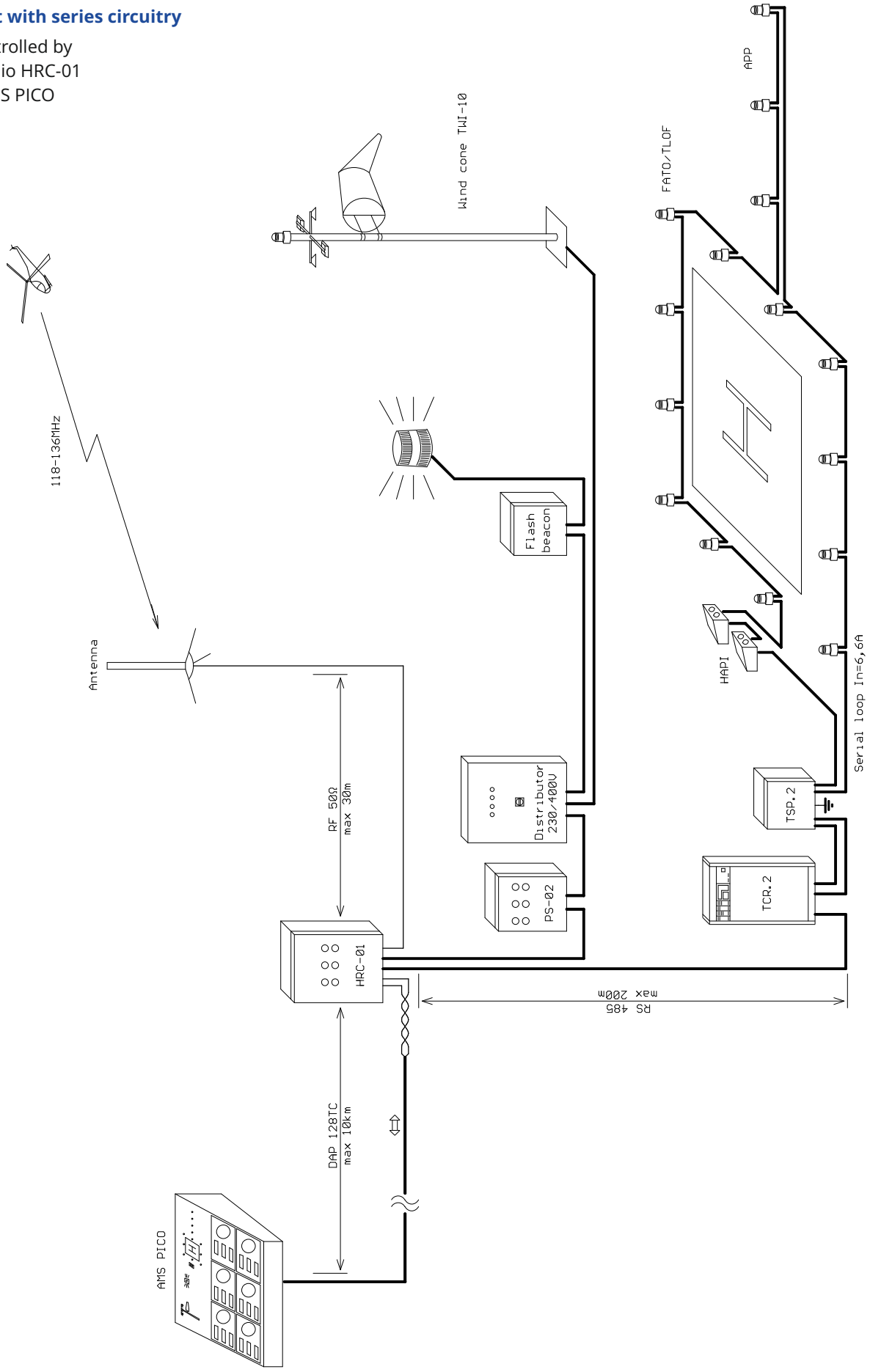

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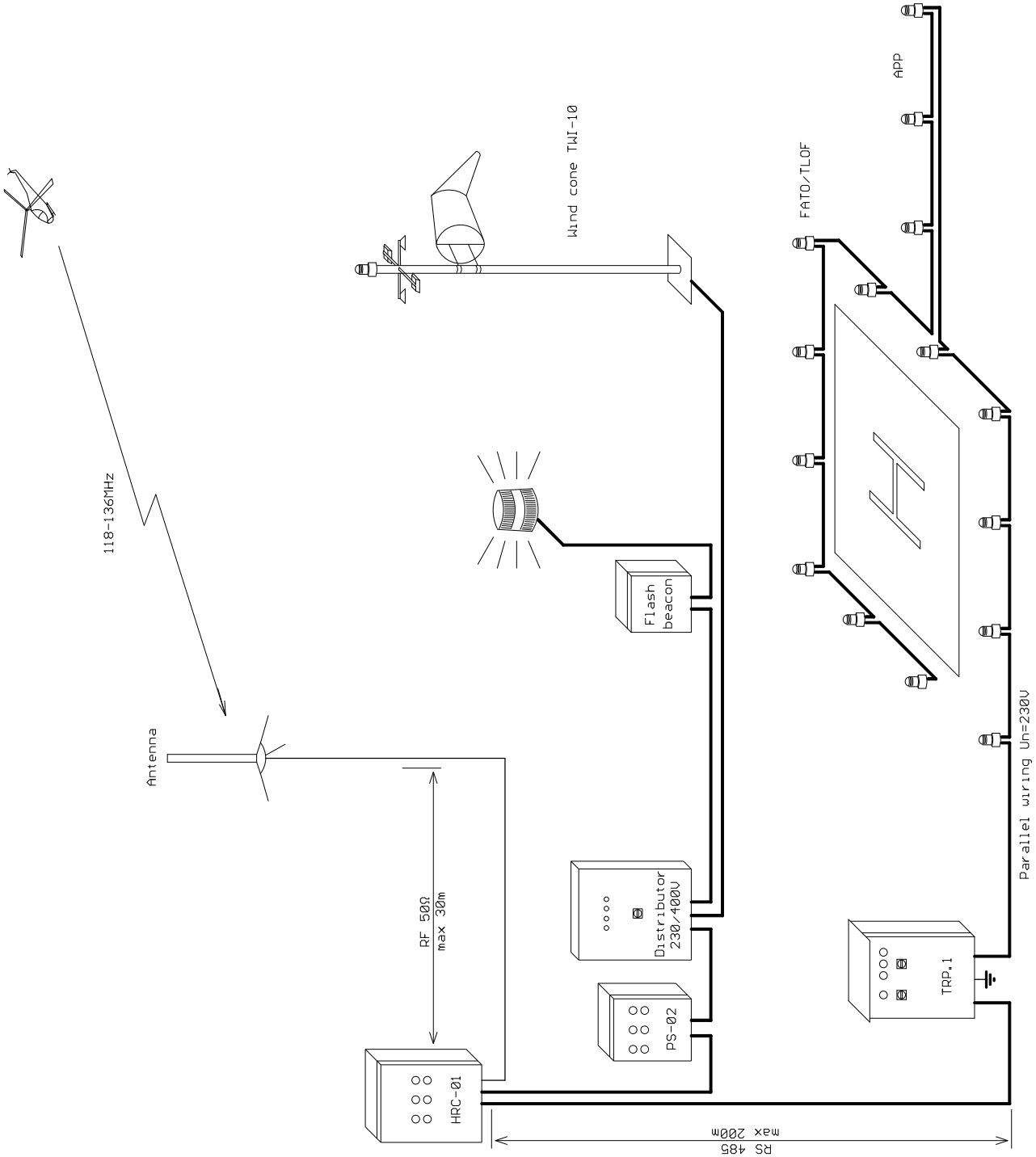
9.1.2 HRC-01

Heliport with parallel circuitry

- Controlled by
  - radio HRC-01