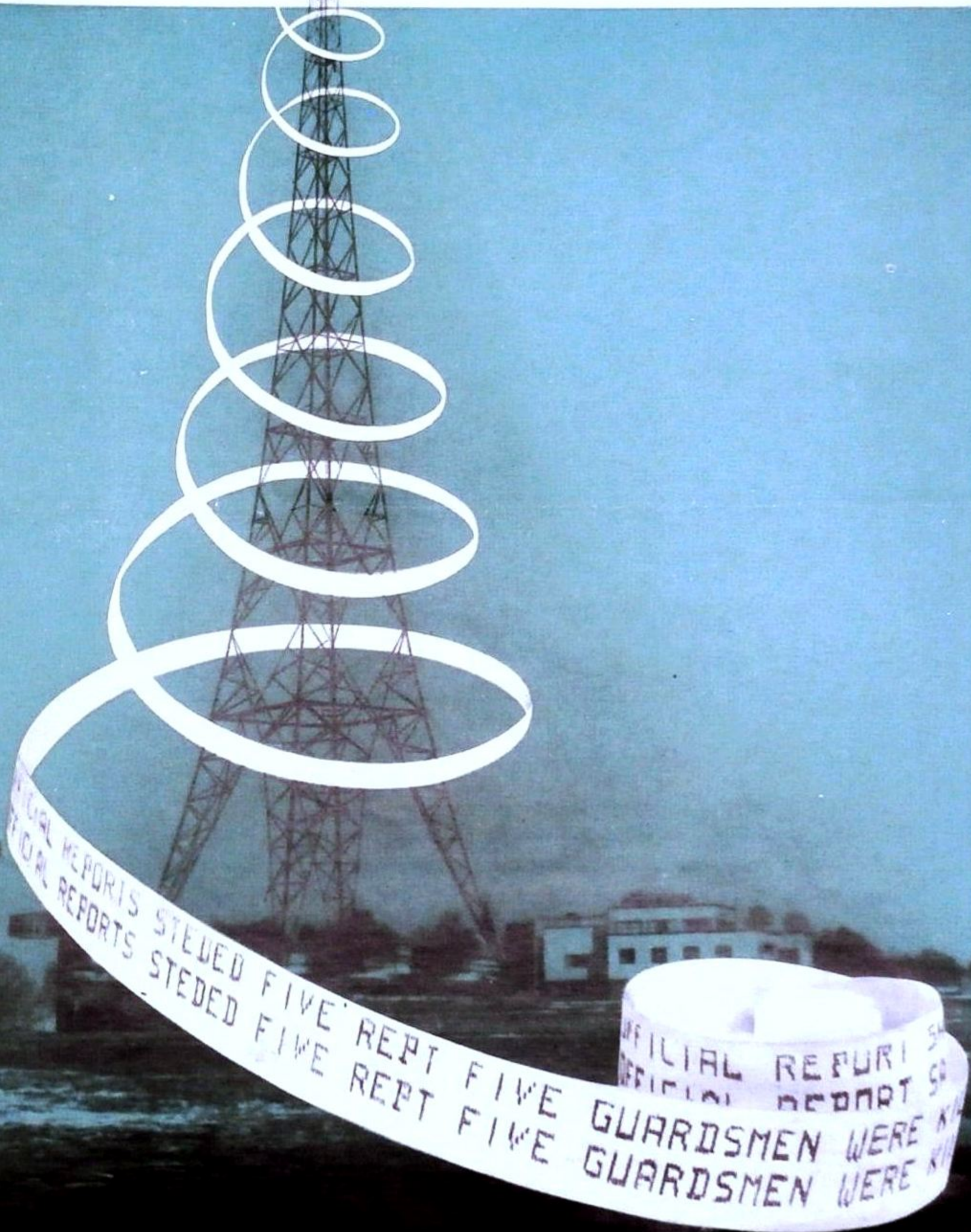


# EMA

## "HELL" SYSTEM TAPE-PRINTER

FOR THE DIRECT RECORDING OF WIRELESS  
MESSAGES IN PLAIN CHARACTERS

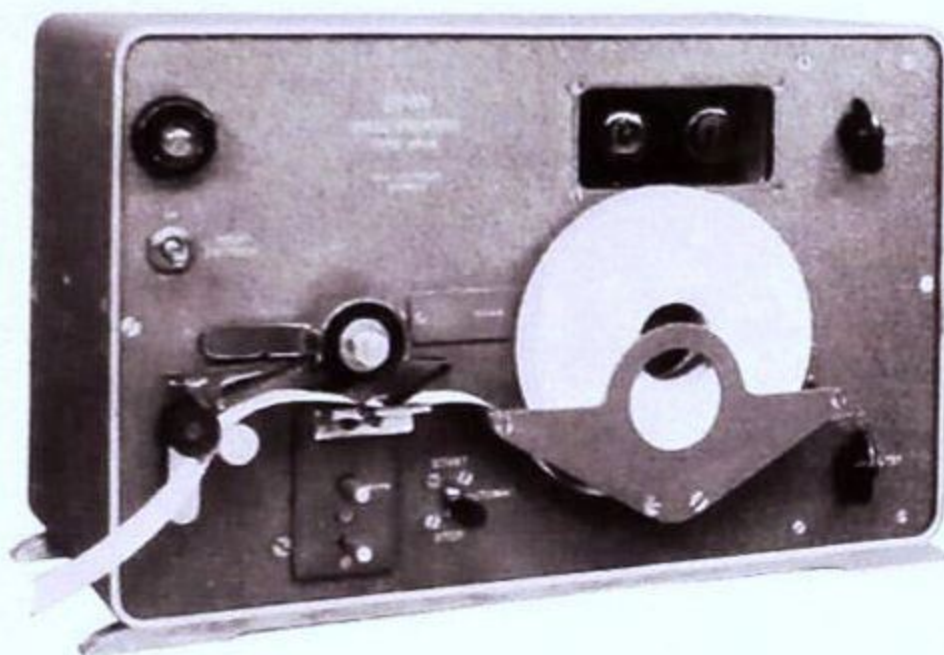


# EMA "HELL" SYSTEM TAPE-PRINTER

## Type HPr4

The EMA Type HPr4 "Hell" system tape-printer consists essentially of a regulable two-stage tone-frequency amplifier with band filter (900 cps), electromagnetic printing apparatus, drive motor, power-mains adapter unit and an automatic start-stop device.

Type HPr4 is particularly adapted for commercial use.



## Technical data:

Input impedance	5, 600 and 10000 ohms for connection to commercial receivers or telephone lines.
Sensitivity	20 mV on 600 ohms.
Filter	900 cps $\pm$ 200 cps.
Amplifier	two-stage, regulable, with telephone tubes. Supervision by glow-lamp and headphones.
Printing system	electromagnetic 7-line, 5-symbols-per-second printer, with adjustable blade-height and easily exchangeable inking roller. Printing speed stabilized and adjustable. Built-in automatic start-stop system. Paper consumption approx. 3' 3" per minute.
Mains supply	110-250 volts, approx. 60 watts, 50 cps. Dry rectifier.
Tubes	2 Philips 18040 telephone tubes.
Dimensions	approx. 14" $\times$ 9" $\times$ 6".
Weight	approx. 26 $\frac{1}{2}$ lbs.

Manufactured by: **EMA AG. MEILEN**

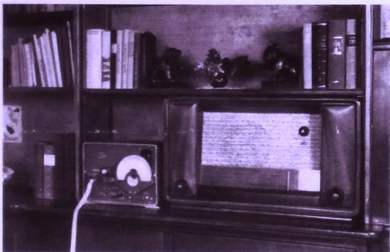
Distributed by: Ingenieurbureau **Dr. E. HUBER**, Stapferstrasse 43  
**ZURICH 33** (Switzerland)

# *Ema* "HELL" SYSTEM TAPE-PRINTER

A receiver unit for the direct recording of wireless messages in plain characters

For news agencies, newspaper offices, the diplomatic service, military and police use, etc.

Do you know the transmission system by which radioed messages are directly recorded in plain characters and which automatically issues a printed tape?



The EMA "Hell" system tape-printer, type HPr3

- can be connected to any radio set;
- can be easily operated by anyone;
- receives all "Hell" system transmissions;
- issues the transmitted messages in the form of a printed text.

*You get news and messages in good time and in their original wording with the*

# *Ema* "HELL" SYSTEM TAPE-PRINTER

# EMA "HELL" SYSTEM TAPE-PRINTER

## Brief technical description

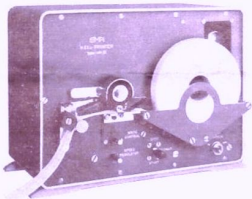
For the engineer...

### Type HPr3

The EMA "Hell" system tape-printer, type HPr3, is simplicity itself, both as to its electrical system and structural design and from the point of view of the operator; it does not take an expert to operate this unit. The Type HPr3 tape-printer consists of a non-regulable single-stage tone-frequency amplifier, the electromagnetic printing apparatus, the drive motor and a power-mains adapter unit.

The tape-printer can, if desired, be equipped with an automatic starting and stopping device.

Type HPr3 was primarily designed for use in the diplomatic service.



### Technical data:

Input impedance	7, 700, 7000 ohms for connection to radio broadcasting receivers,
Sensitivity	6 V on 7000 ohms.
Amplifier	single-stage, non-regulable (regulation is effected on the receiving set).
Printing system	electromagnetic 7-line, 5-symbols-per-second printer, with adjustable blade-height and easily replaceable inking roller. Speed of printing stabilized and adjustable. Paper consumption approx. 3' 3" per minute.
Mains supply	110-250 volts, approx. 60 watts, 50 cps.
Tubes	1 EBL 21 and 1 AZ 21.
Dimensions	approx. 11" x 8" x 4 <sup>3</sup> / <sub>4</sub> ".
Weight	approx. 17 <sup>1</sup> / <sub>2</sub> lbs.

# EMA "HELL" SYSTEM TAPE-PRINTER