

ARO-28C, Almaz-UPM

Voice warning system

Voice warning system is intended for automatic replaying of the voice messages, which were recorded into the internal memory preliminary, warning (informing) the crew and, if required, ground services on the emergency, dangerous and other situations in the aircraft.



ARO-28C
LNVK.467753.002



Almaz-UPM
LNVK.467753.004-01



Almaz-UPM
LNVK.467753.004



Voice warning system provides:

- recording and non-volatile storage of the voice messages, grouped into the sets (dictionaries) with the specified priority, urgency and sign of the message receiver for each message;
- receiving of the commands for voice messages replaying activation from warning signal transducers or from **aircraft computers**;
- receiving of the enabling commands for specifying the logic of the messages replaying;
- receiving of the control commands (the messages breaking, repeating, deleting; listening to the messages; selection of the dictionary, etc.);
- generating and replaying of the voice messages to the crew (via intercom) and to the ground services (via airborne radio);
- entering of A/C registration number and its replaying before the messages, transmitted to the ground services;
- generating of the commands control for controlling the intercom and airborne radio **when voice messages are generated**.

Specifications:

Parameter	Almaz-UPM LNVK.467753.004	ARO-28C LNVK.467753.002	Almaz-UPM LNVK.467753.004-01
Quantity of dictionaries	2	2	replaying in different languages (option, up to 5)
Quantity of inputs for receiving discrete commands for replaying	56	64	80
Quantity of inputs for receiving commands in sequential code as per ARINC 429	not available	5	10
Quantity of outputs for command issue in sequential code as per ARINC 429	not available	not available	1
Total quantity of the messages replaying	56	256	only memory limitation (nonrepetitive sounding - min. 23 minutes)
Quality of the messages replaying	16 bit, 11025 Hz	8 bit, 8000 Hz	16 bit, 11025 Hz
Dictionary storage capacity, Mbytes	4	12	64
Power consumption, W	10	5	10
Supply voltage, DC, V (Emergency supply voltage, V)	24 - 29,4 18 - 31	24 - 29,4 18 - 31	24 - 29,4 18 - 33
Dimensions (WxLxH), mm	201x170x196,6	110x300x260	90,5x295x224
Weight, kg, max	3,2	2,2	2,5
Ambient temperature, °C	- 55 + 60	- 40 + 60	- 55 + 60
Quantity of analog outputs for intercom system, radio sets and headsets connexion	3	3	4
Adjustment range of analog outputs, V			
- on active load (1500±90) ohm (headset)	3-15	3-12	3-10
- on active load (600±90) ohm (intercom system)	0.3 - 0.8	0.1 - 0.8	0.1 - 0.8
- on active load (250±50) ohm (radio set)	0.2 - 0.5	0.1 - 0.5	0.1 - 0.5
Adjustment range of analog outputs, V			
- on active load (600±60) ohm (headset)			3-10
- on active load (600±60) ohm (intercom system)			0.1 - 0.8
- on active load (250±25) ohm (radio set)			0.1 - 0.5
- on active load (600±60) ohm (supplementary intercom system.)			0.1 - 0.8

