

# SWITCH-OVER LOGIC ACU 01/S1/S2/S3



**Microcontroller Supervisor**  
**Very Low insertion loss RF coaxial switch**  
**RS 232 real time communication with transposer**  
**Software Configuration of functional parameters**  
**RS232 - RS485 (ALGORAB)**  
**LAN - SNMP remote control**

# SWITCH-OVER LOGIC ACU 01/S1/S2/S3

DESCRIPTION	UNIT	VALUE	NOTE
<b>MECHANICS</b>			
Dimensions (std.rack 19" 2U) (WxDxH)	mm	484x490x88	
weight (approx)	Kg	8	
Input output RF Connectors	type	N female	
<b>SECTION RF RECEPTION</b>			
Frequency band I <sup>^</sup> III <sup>^</sup> IV & V Broadband	MHz	47÷61 170÷230 470÷862 ***	
VSWR max	-	1.25 : 1	
Input return loss (RL)	dB	≥ 30	
Insertion loss (IL)	dB	≤ 0.20	
Insulation channels	dB	> 70	
Characteristic Impedance	Ohm	50	
Apply power	W	30	
<b>SECTION RF TRANSMISSION</b>			
Frequency band I <sup>^</sup> III <sup>^</sup> IV & V	MHz	47÷61 170÷230 470÷862	
VSWR max	-	1.25 : 1	Version S1
Input return loss (RL)	dB	≥ 25	
Insertion loss (IL)	dB	≤ 0.20	
Insulation channels	dB	≥ 70	
Characteristic Impedance	Ohm	50	
Apply power	W	≤120	
VSWR max	-	1.04 : 1	Version S2
Input return loss (RL)	dB	≥ 30	
Insertion loss (IL)	dB	≤ 0.05	
Insulation channels	dB	≥ 80	
Characteristic Impedance	Ohm	50	
Apply power	W	≤750	
VSWR max	-	1.04 : 1	Version S3 (Ext. Coax rel')
Input return loss (RL)	dB	≥ 30	
Insertion loss (IL)	dB	≤ 0.05	
Insulation channels	dB	≥ 80	
Characteristic Impedance	Ohm	50	
Apply power	W	≤2000	
<b>ENVIRONMENTAL CHARACTERISTICS</b>			
Working temperature	°C	-10°/+60°	
Umidità relative ambientale	%	0 - 90 %	
Working max altitude	m	3500	
<b>GENERAL CHARACTERISTICS</b>			
Remote control	type	RS-232 / Parallel/ Algorab/SNMP-WEB	
Working mode	type	Automatic/Manual	
Control mode	type	Local/Remote	
Communications with connected repeaters	type	RS 232	
<b>POWER CONNECTION</b>			
Voltage (AC)	VAC	220 ± 15%	
Absorption power	W	Max. 30	
Frequency (AC)	Hz	50/60	
Cosp	%	≥ 95	

<b>Other characteristics</b>	
Insulated parallel output on DB25 connector	RS 485 serial interface(ALGORAB)
Insulated parallel opto-input on DB25 connector	LAN connection with SNMP-WEB standard
Dual power suppliessingle anabled	Remote operative parameter read out
Synoptic led panel for operative status	Data-log with event-time memory
Log-file for downloading on RS232	Transient voltage suppression filter