

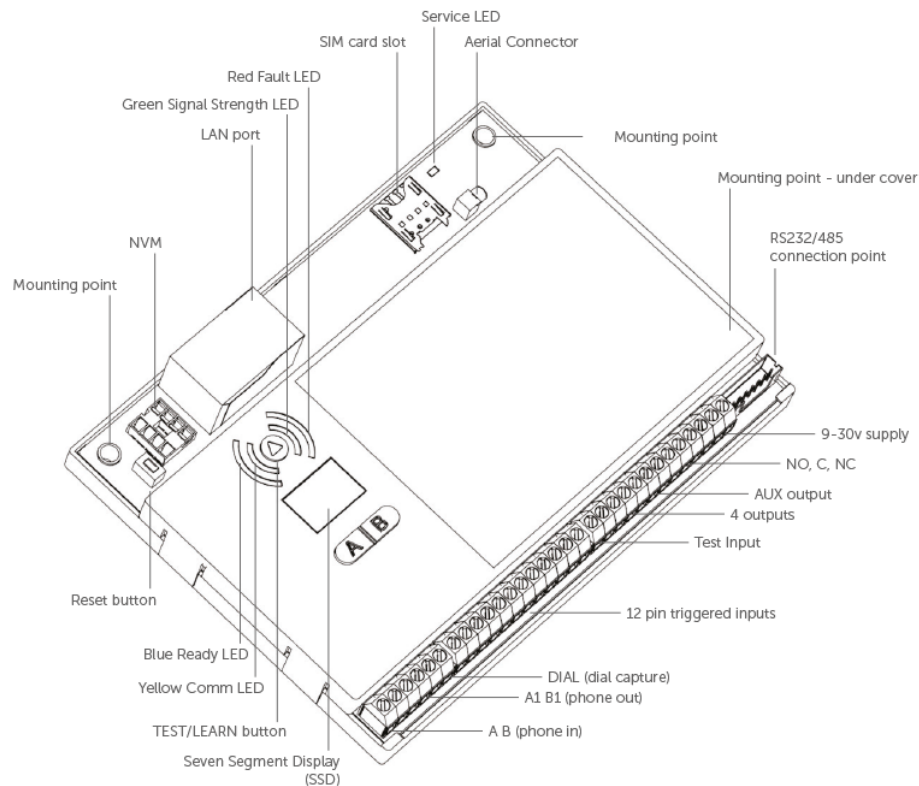


GRADESHIFT UDL

TECHNICAL SPECIFICATIONS

GradeShift UDL

Technical Specifications



Dimensions	21 mm (h), 132mm (w), 94mm (d)	
Weight	140g including NVM and SIM	
Temperature	-20C to +60C transit, -10C to +50C operating	
Humidity	0 - 80% non - condensing	
Mounting	Any orientation	
Warranty	5 years	
Power Requirement	9.0v - 30.0v	
Current Consumption	Quiescent = 20 mA Signalling = 200 mA	
LED Indications	LED	FUNCTION
	Green	Signal Strength
	Yellow	Com Status
	Red	Fault
	Blue	Ready
	SVC	Network Status
Radio Path	2G GSM and 3G GPRS services	
Aerial	50 ohm (nominal) on MMCX socket	
Operation Method	Store and Forward (SIA) Pass Through (Fast Format/CID)	
CIE Interconnections	Input 'pin triggering' (Parallel) 12 channels, Analogue (Dial Capture), RS232 Serial, RS485 Bus	

RCT Protocols	Fast Format/Contact ID/SIA
Input Terminals	Max +30v, Min 0 Vdc (reference supply 0v terminal) 100k pull-up resistor to +5v
Low Battery	9.8v falling, 12.0v recovery
Fault Output	Changeover contacts (60v max, 100mA max)
Aux Output	Normally Open contact, may be inverted (60v max, 100mA max)
General Purpose outputs	Four. Each switched to 0v (30v max, 100mA)
User Serviceable Parts	There are no user serviceable parts within the GradeShift
Standards	Suitable for use in alarm systems complying to: EN50136-1:1998 Security Grade 4/DP3 EN50136-2:2012 SP3 (RADIO) SSF 114 v2 Larmklass 2 EN50131-10 Type Y ATS Classification: EN50136 ATS5/SP3 ATS 5 parameters: D3/M3/T4/S2/I3/A3
Environmental	EN50136/EN50131 Environmental class II Device should not come into contact with water
Emissions	EN55022
Installation	The CS5301-01 shall be installed by a service person and be powered by a Limited Power Source in accordance with clause 2.5 of EN 60950-1 or equivalent, not exceeding the maximum voltage of 30 Vdc, capable of delivering a minimum current of 200mA and be current limited (fused) to 1A. It shall be installed inside an enclosure of another I&HAS component which shall be that of a CIE conforming to EN 50131-3, or a PSU conforming to EN 50131-6.

Figure 2 - LED Indications

LED LABEL	DESCRIPTION	LED STATUS			
		ON	FLASHING	OFF	OTHER
Green	GPRS Signal Strength	Strong Signal Strength	Acceptable Signal Strength	Low Signal Strength, not acceptable	LED off and Red Fault LED on indicates no signal
Yellow	Communications	Input is triggered or Dial Capture is in progress	Sending a message to Gemini and ARC	No communication is in progress	Rapidly flashes to show successful communication
Red	Fault	Fault present see troubleshooting section	NVM contains factory defaults	No faults exist	On for 2 seconds indicates communication failure
Blue	Ready	Unit is ready to send messages to Gemini and ARC	N/A	Unit is busy and not ready to send new messages	LED off and Red Fault LED on indicates programming file is yet to be downloaded (usually takes 5-8 mins from power up with good signal)

Service (SVC) (next to aerial socket)	Network Status	N/A	SIM card registered on network	There is insufficient power or no power connected to the DualCom	Rapid flashing indicates unit is not registered to network
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