

TRAC-Padlock

Specification Sheet

Physical Characteristics

Dimensions:

	Casing		Shackle
Width:	2.75 inches	Length:	1.25 inches
Height:	3.60 inches	Diameter:	.37 inch
Depth:	1.55 inches	Opening width:	1.25 inches
Weight:	2.40 pounds		



TRAC-Padlock

Construction: Casing of TRAC-Padlock is constructed of investment cast stainless steel. The shackle is composed of a hardened boron steel alloy that is multiple plated with copper, nickel and chrome for ultimate corrosion resistance.

Resistance to Attack: The shackle and casing of TRAC-Padlock meet or exceed all ASTM F883-90 grade 3 requirements for testing cycle capacity, environmental effects, tensile force and penetration attack. TRAC-Padlock also meets or exceeds the CEN level 3 standards for safety and security.

Operation: An authorized TRACkey is required to activate the release mechanism for opening and closing the shackle. Audible tone feedback indicates to the user that the open or close process is complete, and each operation is recorded in both the TRAC-Padlock and the TRACkey. The time to lock or unlock the shackle of the TRAC-Padlock is approximately six seconds.

Shackle: The shackle of the TRAC-Padlock locks at both the heel and toe for increased pull resistance. The shackle is tested for pull strength and exceeds 4,500 pounds of force. The shackle can be replaced in the field.

Attachment Chain: TRAC-Padlock comes equipped with a stainless steel safety chain that secures the padlock to gate or fence when the shackle is unlocked for user convenience.

Protective Cover: TRAC-Padlock comes equipped with a protective cover that keeps the TRACkey receptacle free of dirt, mud and debris. The cover is of a polyurethane material enhanced with U.V. inhibitors for long life.

Electrical Characteristics

ITEM	DESCRIPTION
Power Requirements	Operates from power supplied by TRACkey. The TRAC-Padlock requires no battery maintenance or line voltage.
Control of Shackle Release Mechanism	The control of the shackle release is microprocessor controlled. There are no external mechanisms that allow release to be activated without valid TRACkey authorization.
Tampering	The electronics are protected from the physical environment and resistant to improper handling or tampering.

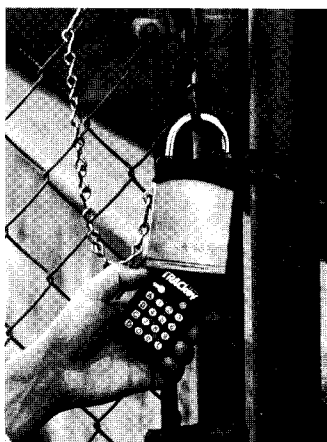
Environmental Specifications

TEST	DESCRIPTION
Temperature Range	-40°C (-40°F) to 85°C (185°F)
Humidity	MIL-STD 202F, Method 106E at 95% relative humidity
Vibration	Highly Accelerated Life Test (HALT)
Electrostatic Discharge	IEC 801-2, Severity Level 3
Water Resistance	2.0 gallons per minute water flow
Dust/Sand	MIL-STD 810E, Method 510.3
Corrosion	ASTM B 368 and copper accelerated acetic acid salt-spray (CASS)
Chemical Resistance	Resists damage caused by common cleaners and de-icers
Snow/Ice	ASTM F883-90 Grade 4, 11.2.3
Shackle Pull	ASTM F883-90 Grade 5 exceeding 4,500 pounds of force
Shackle Cut	ASTM F883-90 Grade 5 to 7,000 pounds
Shackle Twist	CEN 137 Grade 5 at 885 foot pounds

Product Usage



User inputs PIN into TRACkey



TRACkey is placed into TRAC-Padlock



TRAC-Padlock sounds off with audible tone indicating shackle release



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