

OPERATION MANUAL

This operation manual is intended as an instruction manual for trained personnel who are in charge of installation, maintenance, repair etc.



Before equipment use, please read this operation manual carefully.

Serial Number: _____

Date Purchased: _____

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1.0 WARRANTY

Every product is thoroughly inspected and tested before it is shipped from the factory. If any problem develops within one year, return the product prepaid to the factory. If an inspection reveals that the problem is caused by defective workmanship or material, repairs will be made without charge and the product will be returned with the shipping prepaid.

Excluded Items

This warranty does not cover:

- Deterioration caused by normal wear, abuse, chemical or abrasive actions, improper maintenance or excessive heat.
- Problems resulting from repairs, modifications, or alterations made by people other than factory or ACI representatives.
- If the product has been abused or damaged due to an accident.
- If repair parts or accessories other than ACI equipment are used on the product; they are warranted only to the extent that they are warranted by the manufacturer of said parts or accessories.

Remarks

EXCEPT AS STATED HERE, ACI MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES FOR A PARTICULAR PURPOSE.

WARNING

Alterations or modifications of equipment and use of non-factory repair parts can lead to dangerous operation and injury.

To avoid injury:

DO NOT alter or modify equipment.

DO NOT use equipment to lift, support or otherwise transport people.





DO NOT suspend unattended loads over people.

2.0 SAFETY PRECAUTIONS

2.1 Safety Alert Symbols

Throughout this manual are steps and procedures that can prevent hazardous situations, the following symbols are used to identify the degree or level of hazard seriousness.

DANGER, WARNING AND CAUTION NOTICE

Symbol	Description
	Danger Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury and property damage.
	Warning Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury and property damage.
	Caution Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.
	Notice Notifies people of installation, operation or maintenance information which is important but not directly hazard related.



Failure to read and comply with any of the limitations noted in this manual can result in serious bodily injury or death, and/or property damage.

3.0 GENERAL DESCRIPTION & FEATURES

3.1 Description

T Series pendant stations are designed for standard or medium duty control circuit applications. The enclosures are made from double insulated thermoplastic material and these stations have been designed for easy handling and operation. We offer two styles of stations: “small hoist” pistol grip stations with integral parts (see table 2 on page 4), and “general purpose” station components with modular assembly required. The general purpose components are available as custom, factory-assembled stations. For custom applications, a wide range of operators, contact blocks, legend plates, and accessories are offered. These pendants can be used on applications such as overhead cranes, tower cranes, fixed hoists, beam hoists and feature single and two speed versions, they are double insulated, shock and corrosion resistant, 3, 5, 7, 9, 11, 13 element versions and incredible ease of operation!

3.2 Features

- Compact safety-yellow enclosure.
- Two piece enclosure simplified field wiring.
- Easy to read legend plates.
- Neoprene Booted Buttons.
- NEMA 4x Enclosure rating. Degree of protection IP65.
- Range of -15°C to 40°C (5°F to 104°F) operation temperature.
- Contacts rated 5A at 120 VAC.
- 100 gr. Shock resistance.
- Indoor or Outdoor Use.

4.0 PUSH BUTTON STATIONS

The following pendants stations are provided fully assembled. For custom pendant stations, please contact ACI at info@acihoist.com.

Model Number	Description
T-XAC-A2713	3 Button – single speed, with E-STOP
T-XAC-A2713-Y	3 Button – single speed, with key switch
T-XAC-A2913	3 Button – dual speed, with E-STOP
T-XAC-A2913-Y	3 Button – dual speed, with key switch
T-XAC-A4713	5 Button – single speed, with E-STOP
T-XAC-A4713-Y	5 Button – single speed, with key switch
T-XAC-A4913	5 Button – dual speed, with E-STOP
T-XAC-A4913-Y	5 Button – dual speed, with key switch
T-XAC-A6713	7 Button – single speed, with E-STOP
T-XAC-A6713-Y	7 Button – single speed, with key switch
T-XAC-A6913	7 Button – dual speed, with E-STOP
T-XAC-A6913-Y	7 Button – dual speed with key switch
T-XAC-A8713	9 Button – single speed, with E-STOP
T-XAC-A8713-Y	9 Button – single speed, with key switch
T-XAC-A8913	9 Button – dual speed, with E-STOP
T-XAC-A8913-Y	9 Button – dual speed, with key switch
T-XAC-A1013	11 Button – single speed, with E-STOP
T-XAC-A1013-Y	11 Button – single speed, with key switch
T-XAC-A1013-D	11 Button – dual speed, with E-STOP
T-XAC-A1013-YD	11 Button – dual speed, with key switch
T-XAC-A1213	13 Button – single speed, with E-STOP
T-XAC-A1213-Y	13 Button – single speed, with key switch
T-XAC-A1213-D	13 Button – dual speed, with E-STOP
T-XAC-A1213-YD	13 Button – dual speed, with key switch

5.0 DIMENSIONS & SPECIFICATIONS

Electrical Ratings	NEMA / UL A600, Q600
Enclosure XACA0	NEMA/ UL Type 4, 4X (Indoor/Outdoor) 5, IP 65
XACA2 (Pistol Grip)	NEMA/ UL Type 4, 4X (Indoor/Outdoor) 5, IP 65
Operating Temperature	-15°C to +70°C (-5°F to +158°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Housing Material	Yellow polypropylene V2
Shock Resistance	100 g
Vibration Resistance	15 g for 40 to 500 Hz
Mechanical Life	1 Million Operations (The product life expressed is based on average usage and normal operating conditions. Actual operating life varies with conditions. The above statements are not intended to nor shall they create any express or implied warranties as to product operation or life. For information on the limited warranty offered on this product, please contact ACI Hoist and Crane.)
Operating Force	T-Series multi-element types -With contact T-ZB2-BE: 1 daN (36 oz) for N.O.; 1.3 daN (46.8 oz.) for 1 N.O. / 1 N.C. -With contact T-XEN-G1191: 1.4 daN (50.4 oz.) for 1st step; 2.5 daN (89.9 oz.) for 2nd Step
Cable Entry	T-XACD: 7 to 18 mm All other models: 8 to 26 mm
Cabling	Screw and captive cable clamp terminals. Recommended torque 15.62 lb-in (1.8 Nm) Capacity: minimum 1 x 0.5 mm ² (20 AWG) solid or stranded; maximum, with or without cable end: 2 x 1.5 mm ² (16 AWG) or 1 x 2.5 mm ² (14 AWG) or by cable quick connector conforming to NF C 20-20 (on request)







6.0 PARTS





6.1 Contact Blocks for Operators in Cover

Description	Wiring Diagram	Part Number
1 N.O. / Spring return / single speed	-	T-ZB2-BE101
1 N.C. / Spring return / single speed	-	T-ZB2-BE102
1 N.O. early close, and 1 N.C. and 1 N.O. / Spring return / dual speed	A	T-XEN-G1191
1 N.O. and 1 N.O. latching / single speed / interlocked	C	T-XEN-G3781
1 N.O. and 1 N.C. latching / single speed / interlocked	D	T-XEN-G3791

6.2 Operators

Description	Appearance	Mushroom Size	Color	Model Number
Booted Push Button		NA	White	T-XAC-A9411
			Black	T-XAC-A9412
			Green	T-XAC-A9413
			Red	T-XAC-A9414

Description	Appearance	Mushroom Size	Color	Model Number
Mushroom head, for momentary		30mm	Red	T-XA2-BC44
Mushroom head, for maintained		30mm	Red	T-XA2-BS44
		40mm		T-XA2-BS54
		40mm		T-XA2-BS44
Mushroom head, push to maintain / key turn to release		30mm	Red	T-XA2-BS74
		40mm		T-XA2-BS14

Description	Appearance	Mushroom Size	Color	Model Number
Selector switch / 2-position maintained		NA	Black	T-ZA2-BD2
Selector switch / 3-position maintained			Black	T-ZA2-BD3
Selector switch / 2-position maintained, key-operated, key removal from left or right position			NA	T-ZA2-BG4
Selector switch / 3-position maintained, key-operated, key removal from left or right position			NA	T-ZA2-BG5
<p>Booted push buttons are for cover mounting only. All other operators can be mounted on cover or bottom. Trigger action mushroom heads are tamper-proof, meaning that teasing or floating the operator does NOT change the contact state.</p>				