



## CRANE SAFE LOAD SYSTEMS AND WEIGHING EQUIPMENT

### TECHNICAL DATA SHEET – SAFE-AID TS7000 WIND SPEED METER - ANEMOMETER

#### SYSTEM FEATURES

- Designed for easy operator use
- System test with self-diagnostic capabilities
- Resistive touch screen operation
- Large colour display with excellent sunlight readability
- On board basic setup with simple setup techniques
- Vibration proof and tested at extreme temperatures including high humidity (-20 to 70°C)
- Real time clock with calendar - Optional
- Setup with Crane ID - Optional
- Data Logger – Logging of 4000 events including limit or units of measure changes - Optional
- Actual Wind Speed logged every 30 minutes - Optional
- Easily downloadable using USB to specifically designed PC software - Optional
- Wind Speed Display
- Wind Speed Limit Display
- Units of Measure Display – Kilometers per hour, Miles per hour, Meters per second or Knots.
- Percentage of Utilization Display
- Wind Speed 90% Limit Warning – Audio & Visual
- Wind Speed 100% Limit Warning – Audio & Visual
- Intelligent Output on TS7000 Display Unit

#### SYSTEM COMPONENTS

QUANTITY	ITEM DESCRIPTION
1	TS7000 DISPLAY UNIT INCLUDING SWIVEL MOUNTING BRACKET AND EXTERNAL USB PLUG
1	A400 AMPLIFIER IN IP67 JUNCTION BOX SUITABLE FOR EXTERIOR MOUNTING
1	WINDSPEED METER (ANEMOMETER)
1	COMPLETE OPERATORS MANUAL
ALL CABLES TO COMPLETE INSTALLATION OF COMPLETE SAFE-AID TS7000 WIND SPEED INDICATOR	

#### OPTIONAL COMPONENTS

QUANTITY	ITEM DESCRIPTION	SYSTEM USE
1	3 TIER ROTATING ROBOT LIGHT (RED, AMBER & GREEN) WITH FILAMENT TYPE BULB - 12 OR 24VDC	OPTIONAL EXTRA REQUIRED BY SOME CONSTRUCTION AND MINING REGULATIONS
1	DATA LOGGER WITH REAL TIME CLOCK AND BATTERY BACKUP	OPTIONAL EXTRA – USED TO PROVE DELAYS DUE TO INCLEMENT WEATHER
1	3 TIER FLASHING LED ROBOT LIGHT (RED, AMBER & GREEN) – 24VDC ONLY	OPTIONAL EXTRA REQUIRED BY SOME CONSTRUCTION AND MINING REGULATIONS

#### TECHNICAL SPECIFICATIONS

##### TS7000 Display Unit:

- 10 – 36 VDC Input Voltage
- Single Multi-layered circuit board – 4 layers
- 7” TFT Colour Touch LCD with backlight
- Graphical Colour Screen – 256,000 Colours
- Display Resolution – 800 x 480 Pixels
- 91 x 152mm Viewing Area
- Aluminium Bezel fitted to powder coated sheet metal enclosure
- Replaceable Transparent Touch Screen protection sticker
- CAN Bus or MOD Bus communication
- 1 x Optically Isolated Digital Input
- 1 x High side driver with intelligent protection and fault reporting
- IP55 Protection (BS7262 5.7)
- Outside Dimensions 145 x 203 x 55mm (L x W x H) excluding mounting bracket
- Battery Backup – Optional

#### **A400 Amplifier Board in IP67 Box**

- 10 – 36 VDC Input Voltage
- IP66 Glass Fibre reinforced polyester enclosure
- 1 x Digital Inputs with intelligent monitoring for Wind Speed
- CAN Bus and/or Wireless (Optional) Communication
- Outside Dimensions 160 x 75 x 60mm (L x W x H) excluding gland entry

#### **Wired Anemometer (Wind speed meter) – Anemo4403**

- 24 VDC Input Voltage
- Measuring range 0.5 - 50 meters per second (2 – 180 kilometres per hour)
- Black Technical Plastic Body with Robust Flexible Rotor
- Self-levelling mounting bracket
- 20m Connecting cable from anemometer to A400 amplifier
- IP65 environmental protection
- Outside Dimensions 125 x 125 x 295mm (L x W x H) excluding connecting cable

#### **Wired Anemometer (Wind speed meter) – DWS-V-DBC05**

- 10 - 28 VDC Input Voltage
- Measuring range 2-30 meters per second (7.2 – 108 kilometres per hour)
- Black PVC Body with stainless steel rotor
- Self-levelling mounting bracket
- 5m Connecting cable from anemometer to A400 amplifier
- IP54 environmental protection

Outside Dimensions 140 x 140 x 305mm (L x W x H) excluding connecting cable

#### **Cabling & Wiring**

- All communication cables 0.5mm<sup>2</sup> screened
- Lattice Cranes – Hand reeling drum with military specification plugs
- Telescopic Cranes – Spring reeling drum with 4 core cable for power & communication