

- ✂ **Air speed measurements in harsh conditions**
- ✂ **0.5m/s to 30m/s range**
- ✂ **Two channel frequency input**
- ✂ **Over or under range trip points**
- ✂ **Analogue data output**

DESCRIPTION

The Austdac Air Speed Monitor, Type AASM1, is used to measure wind speed primarily in mining situations. The AASM1 comes in two parts, the Air Speed Monitor 1 Anemometer, Type SCGR1 and the 2 Channel Frequency Transmitter, Type SILBUS-TX2F.

The SCGR1 measures the air speed while the SILBUS-TX2F processes that information and can activate relays, strobes or transmit the information via SILBUS.

The AASM1 has three trip levels:

- Warning 1
- Warning 2
- Trip

These points can drive a relay contact and/or a flashing strobe. The wind speed can be monitored via three protocols:

- SILBUS
- 4-20mA
- Modbus RS-485

TYPICAL APPLICATIONS

The AASM1 is perfect for monitoring mine ventilation air flow. It provides data in analogue values and airspeed trips.



CERTIFICATION

The SILBUS-TX2F is IECEx certified for use in Group I hazardous areas as part of the Austdac certification:

IECEx TSA 07.0002X Ex ia I

INTRINSICALLY SAFE INFORMATION

SILBUS	li = 3 A	Ui = 12.6V
	Ci = 0uF	Li = 0uH

2 Channel Frequency Inputs	li = 0	Ui = 0
	Ci = 662nF	Li = 0
	Uo = 12.6V	Io = 12.8mA

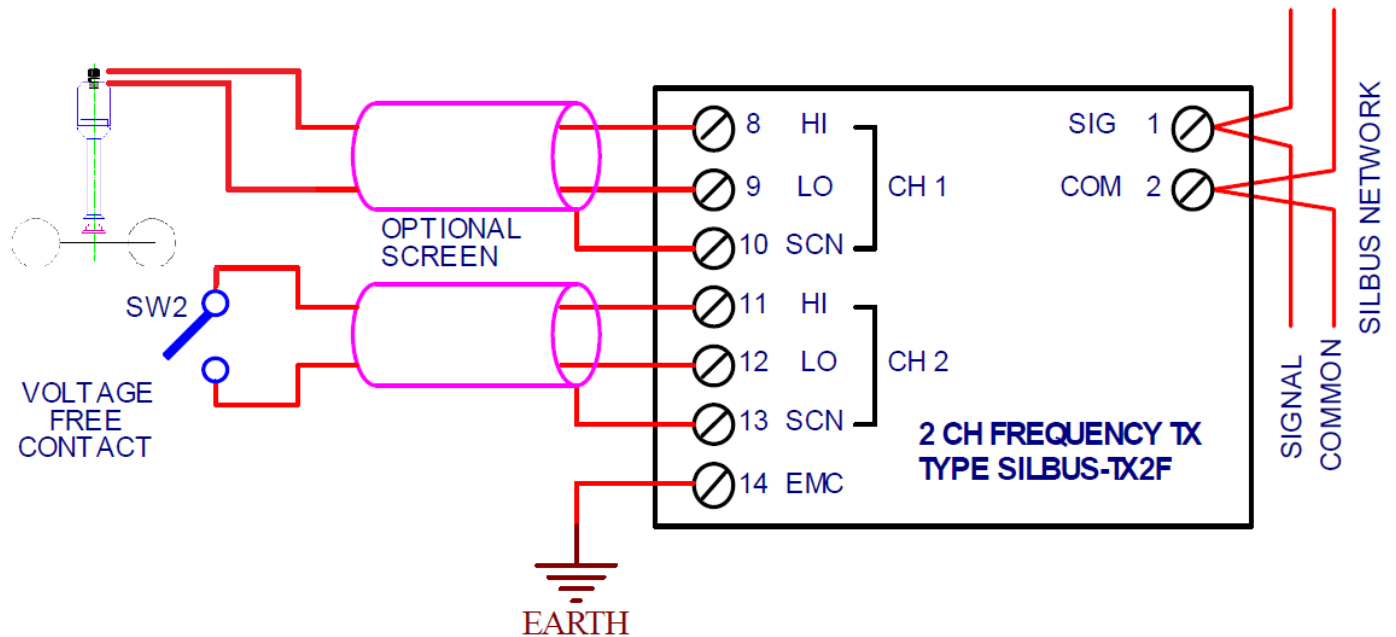
SPECIFICATION

Terminations	Cage clamp 4mm ² (12 AWG)
Size	45(W) x 75(H) x 110(D) mm 1.8(W) x 3.0(H) x 4.3(D) inch
Mass	140g (0.3 lb)
Fixing	TS35 DIN rail only
Ingress Protection	IP20
Enclosure material	Polycarbonate
Enclosure colour	RAL 7032 Grey
Terminal material	Polycarbonate
Terminal block colour	Blue
Operating Temperature	0°C - 40°C (32°F - 104°F)
Storage Temperature	-20°C - 80°C (68°F - 176°F)
No. of analogue channels	2
Input Range	0.14Hz (0.5m/s) - 33Hz (45m/s)

PIN ASSIGNMENT

Pin	Signal	Description
1	SIG	SILBUS NETWORK SIGNAL
2	COM	SILBUS NETWORK COM
8	CH1-HI	HI CONNECTION FOR CONTACT 1
9	CH1-LO	LO CONNECTION FOR CONTACT 1
10	CH1-SCN	CONNECTION FOR OPTIONAL SCREEN
11	CH2-HI	HI CONNECTION FOR CONTACT 2
12	CH2-LO	LO CONNECTION FOR CONTACT 2
13	CH2-SCN	CONNECTION FOR OPTIONAL SCREEN
22	EMC	CONNECTION FOR EARTH

CONNECTION DIAGRAM



DESCRIPTION	ORDER CODE
AIR SPEED MONITOR 1 ANEMOMETER TYPE SCGR1 WITH 2 CHANNEL FREQUENCY TRANSMITTER TYPE SILBUS-TX2F	AAV03