

THOR SYSTEM



Overview

The Thor system has been specially developed to control and monitor cathodic protection systems in plant areas where multiple systems are installed.

The basic idea is to allow one system to control a large number of rectifiers instead of having individual systems, which is an advantage from an installation and operating point of view. The separate rectifier modules can be located up to 500 m away from the control panel and will be connected via a CAN (Controller Area Network) buss.

The Thor system can control up to 20 rectifiers in constant current-, voltage- and potential mode. A total of 96 reference electrodes can be connected to the system and any of them can be used as controlling reference.

From the panel simultaneous IR-drop measurement can be carried out for all installed reference electrodes.

The system also has a built in data logger function that can sample all operational data at intervals between 1 per minute and 1 per 24 hours.

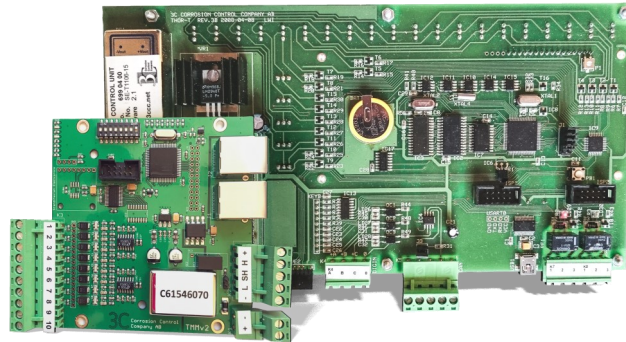
The data can then be down loaded to a USB memory, laptop or through the internet (optional) for further analysis.

The Thor system has, for each sub system, Hi/Lo alarms for current, voltage and potentials.

The system in the standard version is operated from the local control panel where all configuration and operation is carried out.

As an alternative to operation from the local control panel a remote control can be used. The remote system can be connected to the common cabinet either via TCP/IP local or via internet, modem.

All functions that can be done on the local control panel can also be done remotely.



Technical Data

Thor TCU (HMI)	Art. No. 603-0400	TMM Potential I/O	Art. No. 603-0410
Supply voltage	24VDC	No. Input ch.	8
Field bus type	CAN	Resolution	12-bit
Data log capacity	400 positions	Range:	± 2.5 VDC
Max distance	750 m (First to last Node)		
		TRM Regulator I/O	Art. No. 603-0420
No. of rectifiers to control	20	Resolution	12-bit
Operation Mode	Constant Potential Constant Current Constant Voltage	Range	Output: 0-10V Current input: 0-60mV 0-1V Voltage input: 0-60V
Radio interference	Suppressed according to VDE 0871 A, wirebound interference.	Protections I/O cards	Transient voltage
Ambient temp.	Max 40°C		
Optional Add-on	Art no. 603-0405		
	Remote Monitoring		
	<ul style="list-style-type: none"> • Ethernet interface • Micro SD card • USB 		

