



Connect Network Systems

Innovative Environmental Solutions

tyco | Flow Control | **Environmental Systems**

What it Does

- A total process data acquisition system
- Continuously quantitatively and instantaneously records and reports process conditions
- Continuously monitors and records particulate as well as any analogue signal such as temperature, pressure, associated with a process
- Can have up to eight different traces in each of eight different trends on screen at any one time showing different parameters eg., concentration, mass flow, pressure, velocity, temperature
- Extensive internal function library including; alarms, DDE (Dynamic Data Exchange), Historical logging, trend charting, averaging.

Product Description

The Connect Network System utilises RS485, Modbus RTU for long haul data transmission.

Connect is a multi-threaded application, written under Microsoft Visual C++ Studio, following all Microsoft recommendations. Thus Connect is capable of running simultaneously with other standard Windows applications. Signals from various nodes are sent through junction boxes where they download to the Connect Network link. Up to 29 nodes can be incorporated into one network which can then be connected through a power supply/converter (ANP1) that converts the RS485 signal to RS232 format. A designated serial port is required for the system.

Operational Range

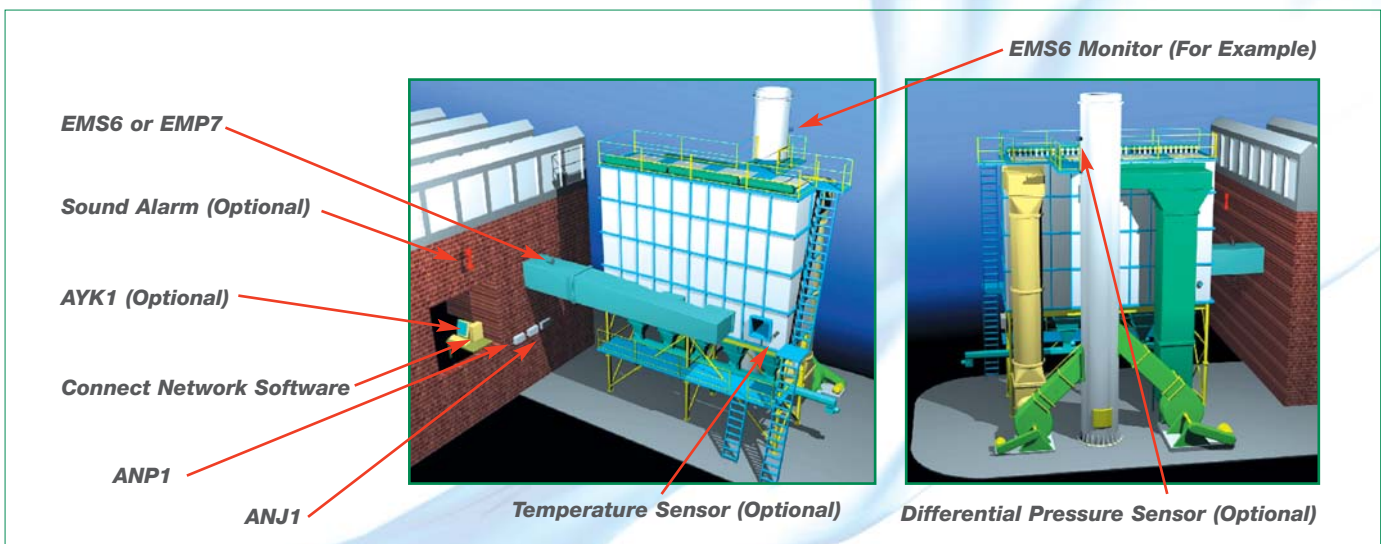
- Suitable for Windows 95, 98, 2000 or NT4.0
- Processor requirements: Pentium 300 recommended. Free disk storage of 5MB plus 1MB/month per signal (typical).

Benefits

- Improved baghouse monitoring for lower maintenance costs
- Can prevent environmental breaches through proactive data acquisition
- Cost effective data acquisition system
- Useful initial set-up tool before configuring EMS6 network system into PLC.

Features

- Ability to monitor entire process conditions
- Records EPA data for historical reference and displays real time data for process control
- Can act either as a stand-alone data acquisition and presentation system, or as a 'front end' to a third party SCADA System, providing dynamic data via a standard 'DDE' Interface.
- Up to 29 nodes of various configurations (including those with analogue output) can be connected to the Connect Network eg., temperature, pressure, gas analyser
- Events log for alarm and system reference.
- Network search facility for easy recognition of newly added nodes.



Functions

The Connect Network System records both averages that can be used for Environmental Regulatory Authorities and instantaneous levels for process monitoring.

The system can be calibrated to quantitatively monitor mg/m³ (gr/ft³), mg/s (gr/s), temperature, pressure differentials, velocity and other system parameters using various calibration techniques such as isokinetic sampling.

Historical Logging of Data

- Calculates and records all process conditions
- Records all information in table format
- Averaging option
- Event log to highlight specific actions such as alarm
- Diagnostic tool for process improvement
- View any combination of nodes, from 1-29
- Displays historical data as trend graph.

Trend charts

- Monitor up to 8 charts independently
- Each chart can be averaged, scaled and labelled
- Up to 8 traces per chart.

Alarms

- Up to 4 alarms on any signal
- Automatic or manual reset
- Drive relay outputs (AYK1) or event log file and PC sound system.

Calibration

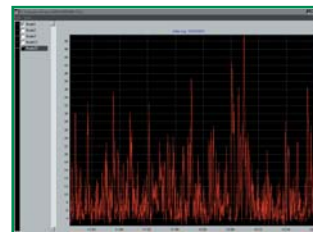
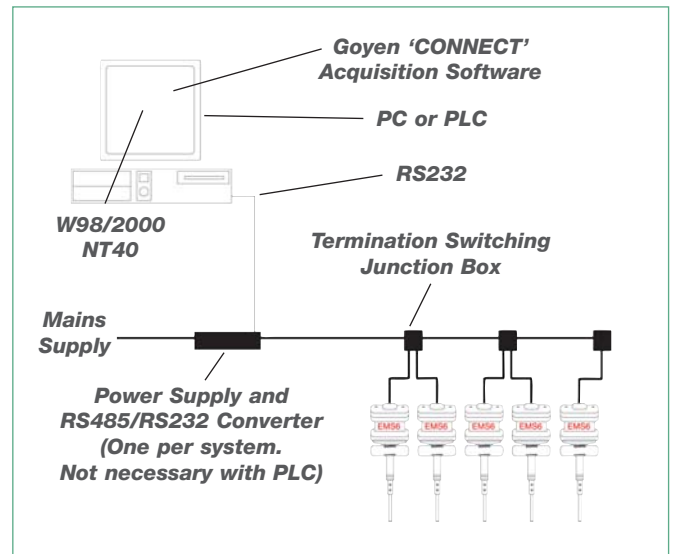
- Iso-kinetic testing function
- Automatic or manual start/stop.

DDE

- Output of all signals into another exterior platform such as SCADA or Excel
- Separate averaging.

Network

- Node parameters can be changed through the system configuration.



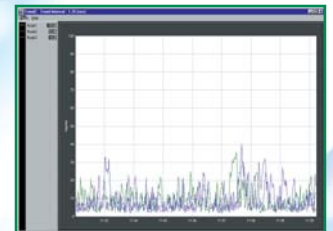
HISTORICAL DATA

Time	S1	S2	S3
8:59:45	5.00	0.00	3.00
8:59:45	6.00	9.00	2.00
8:59:45	13.00	5.00	0.00
8:59:45	17.00	0.00	0.00
8:59:46	14.00	0.00	4.00
8:59:46	7.00	9.00	10.00
8:59:46	11.00	12.00	4.00
8:59:46	15.00	14.00	2.00
8:59:47	21.00	11.00	3.00
8:59:47	23.00	9.00	0.00

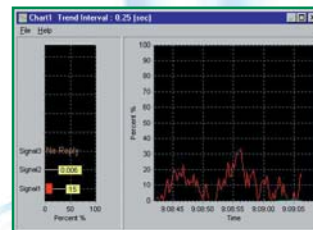
DATA LOG

Time	Event
5/02/2001 11:33:52 AM	Start
5/02/2001 11:39:35 AM	Stop To Configure
5/02/2001 11:39:27 AM	Node2 Offline
5/02/2001 11:39:27 AM	Start
5/02/2001 11:39:07 AM	Stop To Configure
5/02/2001 11:39:04 AM	Node2 Offline
5/02/2001 11:39:04 AM	Start
5/02/2001 11:38:45 AM	Stop To Configure
5/02/2001 11:38:36 AM	Node2 Offline
5/02/2001 11:38:36 AM	Start
5/02/2001 11:38:21 AM	Stop To Configure
5/02/2001 10:37:59 AM	Node2 Offline
5/02/2001 10:37:59 AM	Node1 Offline
5/02/2001 10:37:59 AM	Start
5/02/2001 10:37:54 AM	Stop To Configure
5/02/2001 10:37:48 AM	Node2 Offline
5/02/2001 10:37:48 AM	Node1 Offline
5/02/2001 10:37:48 AM	Start

EVENTS LOG



TREND INTERVAL



POLLING

CONFIGURATON

Node	Device	Address	Port	Gain	Offset	Scale	Units
1	10124242	25	COM1	1	0	1	mg/m3
2	10124242	26	COM1	1	0	1	mg/m3
3	10124242	27	COM1	1	0	1	mg/m3
4	10124242	28	COM1	1	0	1	mg/m3
5	10124242	29	COM1	1	0	1	mg/m3
6	10124242	30	COM1	1	0	1	mg/m3
7	10124242	31	COM1	1	0	1	mg/m3
8	10124242	32	COM1	1	0	1	mg/m3
9	10124242	33	COM1	1	0	1	mg/m3
10	10124242	34	COM1	1	0	1	mg/m3
11	10124242	35	COM1	1	0	1	mg/m3
12	10124242	36	COM1	1	0	1	mg/m3
13	10124242	37	COM1	1	0	1	mg/m3
14	10124242	38	COM1	1	0	1	mg/m3
15	10124242	39	COM1	1	0	1	mg/m3
16	10124242	40	COM1	1	0	1	mg/m3
17	10124242	41	COM1	1	0	1	mg/m3
18	10124242	42	COM1	1	0	1	mg/m3
19	10124242	43	COM1	1	0	1	mg/m3
20	10124242	44	COM1	1	0	1	mg/m3
21	10124242	45	COM1	1	0	1	mg/m3
22	10124242	46	COM1	1	0	1	mg/m3
23	10124242	47	COM1	1	0	1	mg/m3
24	10124242	48	COM1	1	0	1	mg/m3
25	10124242	49	COM1	1	0	1	mg/m3
26	10124242	50	COM1	1	0	1	mg/m3
27	10124242	51	COM1	1	0	1	mg/m3
28	10124242	52	COM1	1	0	1	mg/m3
29	10124242	53	COM1	1	0	1	mg/m3
30	10124242	54	COM1	1	0	1	mg/m3

DDE

NETWORK



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