

Company Mission

In a single site visit, NC13 Industries Ltd aims to ensure that your installation and setup needs are met with precision and reliability.

We pride ourselves with being your go-to partner, providing dedicated phone and email support for Metering Instrumentation and more.

By choosing us, you're not just investing in top-tier service, you are also elevating your prestige and commitment to excellence for your customers.

Accreditations and Credentials

We are the only company directly accredited by **Elgas s.r.o.** for Commissioning and Maintenance of their entire range of **Elcor** Converters and Dataloggers in UK.

MWA Technology Ltd also certified us for Commissioning and Maintenance of the Dresser Itron Actaris equipment **Corus EVO+** and **MC2 PTZ**.

We are directly accredited by **PLUM Sp. z.o.o.** for the Operation, Commissioning and Maintenance of their entire range of **Mac** Converters and Dataloggers in UK.

SafeContractor accreditation underlines our commitment to Health and Safety and Sustainability.

Certified to **ISO9001:2015** – 14142527 and **ISO14001:2015** – 14142528.

IGEM, IMechE, The IET, Gas Safe Register, SHEA Gas and the **Engineering Council** memberships are our commitment to standard compliance and codes of conduct.

Multiple accreditations and certifications in the sectors of **Pipefitting, Metering, Metering Instrumentation, Network Administration** and **Computer Sciences** allow us to implement a hands-on approach and convert our knowledge into sustainable and reliable physical interventions.

UVDB membership reference number: 00265953

All trade specific insurances up to date and available upon request.

Services Provided

We are offering Metering Instrumentation support, both software and hardware, using finely tuned and professionally developed expertise gathered under the close supervision of some of the best in the Natural Gas Industry.

- ✓ Hardware Supply, Installation, Commissioning and Maintenance
- ✓ Periodical verification against metrologically approved devices.
- ✓ Site Surveys.
- ✓ SCADA and BMS programming and troubleshooting.
- ✓ Network management, analysis and optimisation.
- ✓ Hardware assessment and optimisation.
- ✓ Bespoke software solutions.
- ✓ Customised testing equipment and software.
- ✓ Extensive knowledge on a variety of converters and data loggers.
- ✓ Pulse to Lora; Modbus to Lora; Modbus to WiFi / TCP; Intranet and BACnet
- ✓ NB-IoT modem retrofit
- ✓ AI Integration.
- ✓ Online Historian – Accepts all brands of meters across any industry.
- ✓ Continuous support.

The above are only part of a comprehensive engineering solution and we encourage you to contact us with any enquiries related to Metering Instrumentation.

Devices Covered

The following is our most in demand list of hardware and software solutions:

Converters and Dataloggers



Corus EVO+



ElcorPlus



MC2 PTZ



Plum MacR6

Barrier Boxes



Complete Isolation



Multi-device Architecture



Combo Barriers

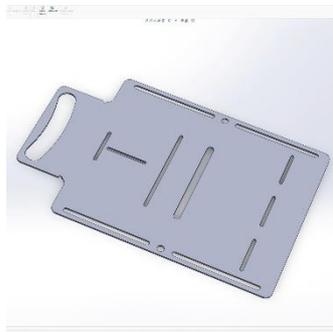


Complete coms and data

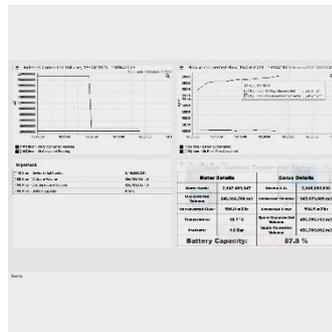
Custom Hardware and Software



Calibrated Pulse Generators



Custom Mounting Plates



Flow / Pressure analytics



Custom local SCADA

Pricing Structure

We do not require the site to be powered or operational.

We have all the equipment needed to install and set the instrumentation and any barriers, on the first visit, with all the settings needed to be ready to use once the site is finished.

Site Visit Software Setup	Any software alterations or initial setup for any brand of Electronic Volume Converter. Within 100 miles of Manchester	£600	All hardware supplied by client and For Sites outside the 200miles radius of Manchester, please contact first. costi@nc13.co.uk or bms@nc13.co.uk
Site Visit Software Setup	Any software alterations or initial setup for any brand of Electronic Volume Converter. Within 200 miles of Manchester	£900	
Site Visit Hardware Setup	Full installation of one converter with all ancillaries except Thermowell and piping kit. Within 100 miles of Manchester	£800	
Site Visit Hardware Setup	Full installation of one converter with all ancillaries except Thermowell and piping kit. Within 200 miles of Manchester	£1100	
Site Survey Basic	Site visit and liaising with all parties - establishing the hardware and settings needed.	£150 + Transport	
Site Survey Extensive	An extensive survey that will validate existing hardware, inclusive of pressure and temperature, and establish the steps needed for more complicated setups.	£250 + Transport	

No Liability | | No Upfront Costs | For Your Ease of Mind

Firewall Contracts – 36 months rolling		
Free Issue	£100/month	Your device – Our Responsibility
Conversion Only	£120/month	Our Device – Our Responsibility
Connected Devices	£180/month	Complete Solution for any Setup – Our Responsibility

- **No Upfront Costs:** Start benefiting from advanced telemetry solutions immediately without the hefty initial investment.
- **Predictable Monthly Fees:** Enjoy the advantages of cutting-edge technology and expert support for a simple monthly fee.
- **Hassle-Free Maintenance:** We take full responsibility for any potential issues, ensuring your systems are always running smoothly.
- **Comprehensive Coverage:** Includes installation, commissioning, real-time monitoring, and regular maintenance.

Risk-Free Operation: You are not liable for any technical issues; we manage everything for you.

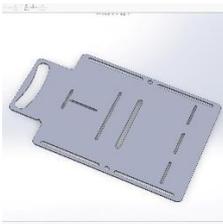
Complete Online Historian – Starting at £8.5/month/device

Hardware Supply and Complete Solutions

<p>Sub-Metering Complete Bundle</p> <p>Any Converter: <ul style="list-style-type: none"> • ElcorPlus_SM or <ul style="list-style-type: none"> • Itorn CorusEVO+ or <ul style="list-style-type: none"> • PLUM MacBAT 5</p> <p>Inclusive of Site Visit</p>	<p>Electronic Volume Converter complete solution for sub-metering</p> <p>Bundle includes:</p> <ul style="list-style-type: none"> • Converter with Metering Pressure and Temperature transducers only - External Power Supply Module - Modbus COM card - Modem (PLUM only) • Pre-Wired Barrier Enclosure - IS Panel - Modbus communications barrier - 2x Relays for pulse output - Power Transformer • Transducer Piping Kit and Thermowell (fitted by client) • Mounting Plate • Inclusive of site visit for installation and commissioning • No Extra Costs 	<p>£2,550</p>	
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<p>ElcorLite_SM Complete Bundle</p> <p>Inclusive of Site Visit</p>	<p>ElcorLite complete solution for sub-metering</p> <p>Bundle includes:</p> <ul style="list-style-type: none"> • ElcorLite with Metering Pressure and Temperature transducers only - External Power Supply Module - Modbus COM card - NO Modem, NO SIM • Pre-Wired Barrier Enclosure - IS Panel -B-PRO coms barrier - 2x Relays for pulse output - Power Transformer • Transducer Piping Kit and Thermowell (fitted by client) • Mounting Plate • Inclusive of site visit for installation and commissioning • No Extra Costs 	<p>£2,400</p>	
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<p>ElcorPlus</p>	<p>ElcorPlus – electronic volume converter including:</p> <ul style="list-style-type: none"> - Metering Pressure Transducer 0.8 - 5.2Bar and Temperature Transducer - Barometric Pressure - External Power Supply Module - Modbus COM card - NO Modem, NO SIM card 	<p>£965</p>							
<p>ElcorLite</p>	<p>ElcorLite – electronic volume converter including:</p> <ul style="list-style-type: none"> - Metering Pressure Transducer 0.8 - 5.2Bar and Temperature Transducer - Barometric Pressure - External Power Supply Module - Modbus COM card - NO Modem, NO SIM card 	<p>£685</p>							
<p>ElcorStandard</p>	<p>ElcorStandard – electronic volume converter including:</p> <ul style="list-style-type: none"> - Metering Pressure Transducer 0.8 - 5.2Bar and Temperature Transducer - Barometric Pressure - Modbus - Main battery operated - NO External Power Supply - NO Modem, NO SIM card 	<p>£765</p>							
<p>Itron CorusEVO+</p>	<p>Itron CorusEVO+ dedicated for Sub-Metering, including</p> <ul style="list-style-type: none"> - Metering Pressure Transducer 0.8 - 5.2Bar and Temperature Transducer - External Power Supply Module - Modbus COM card - NO Modem, NO SIM card 	<p>£1,300</p>							
<p>PLUM MacBAT 5</p>	<p>Gas Volume Converter including</p> <ul style="list-style-type: none"> - External Pressure sensor 0.8 – 10 Bar - External M12x1.5 (Ermeto) (2.5m cable length) - External Temp sensor - 4 wires, 2,5m cable length, L: 50mm, NPT 1/4" - 8 Digital Inputs - 4 Digital Outputs - Binary alarms / Pulse - 2 x RS485 communication port as standard 	<p>£1100</p>							
<p>PLUM MacR6 Z0</p>	<p>PLUM micro converter - can be used as AMR</p> <table border="1" data-bbox="320 1798 1034 1946"> <tr> <td style="text-align: right;">LF Pulse Only</td> <td>£175</td> </tr> <tr> <td style="text-align: right;">LF Pulse and ONE Pressure Transducer</td> <td>£400</td> </tr> <tr> <td style="text-align: right;">LF Pulse and TWO Pressure Transducers</td> <td>£500</td> </tr> </table>	LF Pulse Only	£175	LF Pulse and ONE Pressure Transducer	£400	LF Pulse and TWO Pressure Transducers	£500		
LF Pulse Only	£175								
LF Pulse and ONE Pressure Transducer	£400								
LF Pulse and TWO Pressure Transducers	£500								

EVC_Mount_Plate	<p>Universal Telemetry Plate that will fit all of the above EVCs and more.</p> <ul style="list-style-type: none"> - Can be fitted to Flange Bolts up to and including DN150 - Can be fitted to the frame with self-drilling screws - Can be fitted to the pipe with Unistrut and pipe U bolts (not supplied in the kit, client to supply if required) 	£45	
ElcorPlus-Primary	<p>ElcorPlus converter with all standard modules, including</p> <ul style="list-style-type: none"> - Metering Pressure Transducer 0.8 - 5.2Bar and Temperature Transducer - Pressure transducers for Inlet, 2 Filters and Outlet - External Power Supply Module - Modbus COM card - Modem, NO SIM card - EXT1 Extension Board - inclusive of HF Input 	£2,380	
Chatterbox	Barrier for pulse outputs	POA	
Dresser MC2 PTZ	Dresser micro converter.	POA	
NC13_PSCM	<p>Pulse Simulator and counter – With Modbus test Metrologically certified device that simulates constant pulse outputs - LF, MF and HF pulse generation – Customisable Simultaneous counting and modbus testing. Used for commissioning and verifying EVCs.</p>	£260	
EVC_Piping_Kit (3-way-valve)	Valve needed to install EVC pressure transducers	£55	
Thermowell	Pockets for thermowells up to DN200	£30 to £120	

Other Services and Hardware available.
 Please contact costi@nc13.co.uk for more details

2024 Portfolio

Site Survey



Details

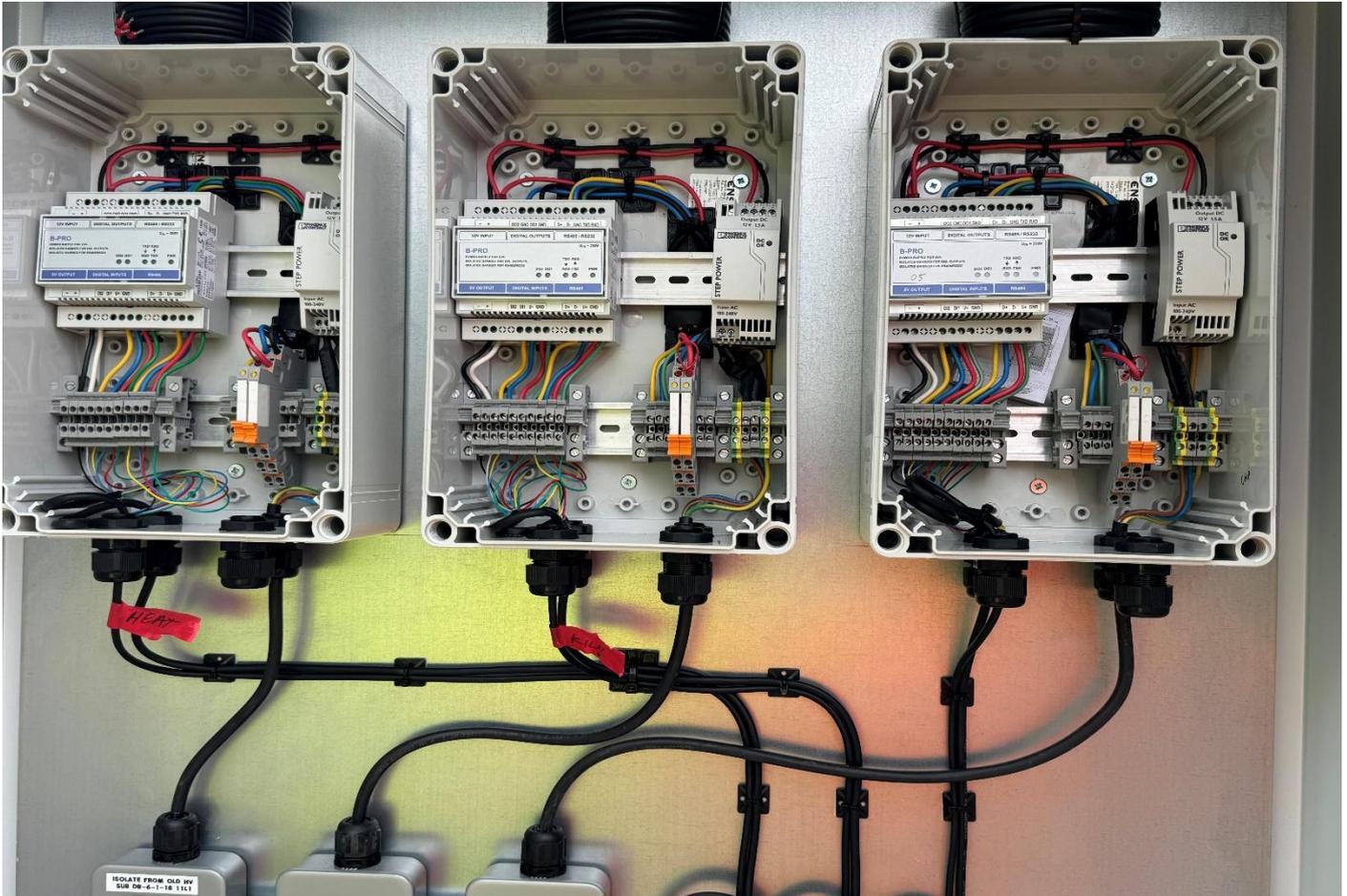
Recommendation

Customer: Brick Manufacturer
 Request: Monitor Gas Flow And Parameters
 Method: Local BMS
 Architecture: Analog Only

ElcorPlus with metrology transducers only
 Elgas B-DO – providing 4 digital outputs
 Elgas CLO – converting digital to analog
 Power Supply for all devices.

Data Acquired:
 Converted Volume: Pulse Output through Relay
 Converted Flow: Analog 4-20ma Signal
 Pressure: Analog 4-20ma Signal
 Temperature: Analog 4-20ma Signal

Multi-Device Architecture



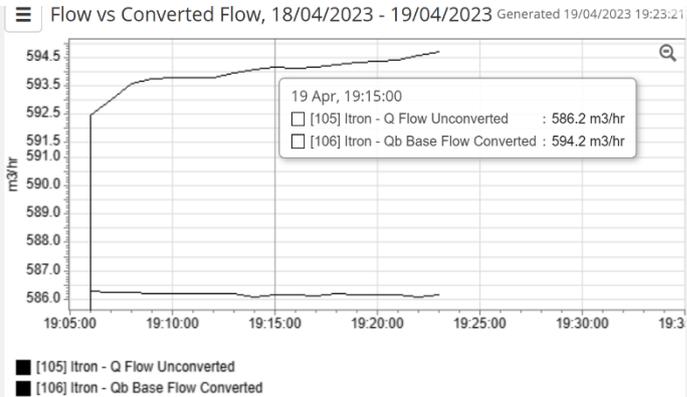
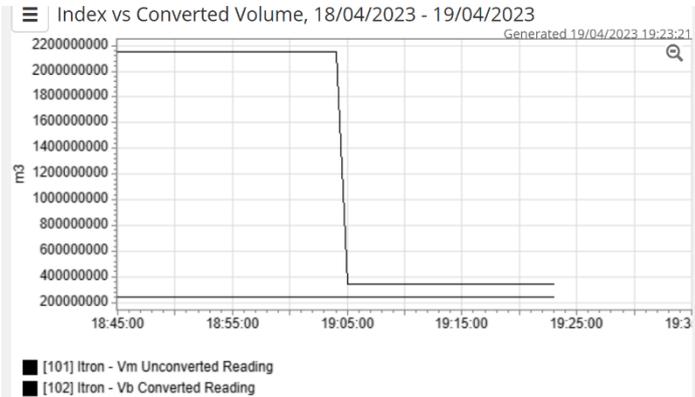
Details

Solution

Customer: Lime Quarry
 Request: Monitor Gas Flow and Parameters
 Method: Local and Remote SCADA and BMS
 Architecture: Modbus TCP/IP

Two ElcorLite for Secondary Meters
 One ElcorPlus for Primary Meter
 Three individual barrier boxes
 Modbus RTU wired into Modbus TCP/IP
 Bespoke modbus mapping

Gas Pressure Regulator Behaviour Analysis



Important

[110] Itron - Device Serial Number	2,146,000,830
[103] Itron - Vs Spare Volume	456,789,113 m3
[104] Itron - Vbs Base Spare Volume	456,789,012 m3
[109] Itron - Battery Capacity	87.8 %

Meter Details		Corus Details	
Meter Serial	2,147,483,647	Device S.N.	2,146,000,830
Unconverted Volume:	246,666,788 m3	Converted Volume:	345,679,085 m3
Unconverted Flow:	586.0 m3/hr	Converted Flow:	594.5 m3/hr
Temperature:	10.7 °C	Spare Unconverted Volume:	456,789,113 m3
Pressure:	1.0 Bar	Spare Converted Volume:	456,789,012 m3
Battery Capacity:		87.8 %	

Details

Solution

Customer: Electricity Generation

Request: Determine the reason for insufficient gas flow to generators

Method: Graphs and Data Points

Architecture: Modbus / 1Hz readings / SCADA

Combining the existing Converter with bespoke pressure transducers and software, we were able to accurately plot the behaviour of the pressure and flow through the pipework.

Solution was to replace the existing regulator and redesign a section of pipe to accommodate for the needed flow.

Minimum downtime with accurate and predictable results.

Key Benefits of using NC13 Industries Ltd

Comprehensive Installation and Commissioning

We handle all setup processes for you.

Proactive Maintenance

Prevent downtime with Free of charge, regular, proactive system checks.

Experienced and Certified Professionals

Our team ensures the highest standards of service.

Tailored Solutions

Customized to meet your specific operational needs.

Contact Us:

Discover the worry-free way to optimize your gas operations.

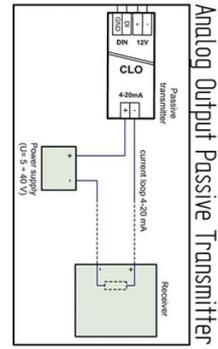
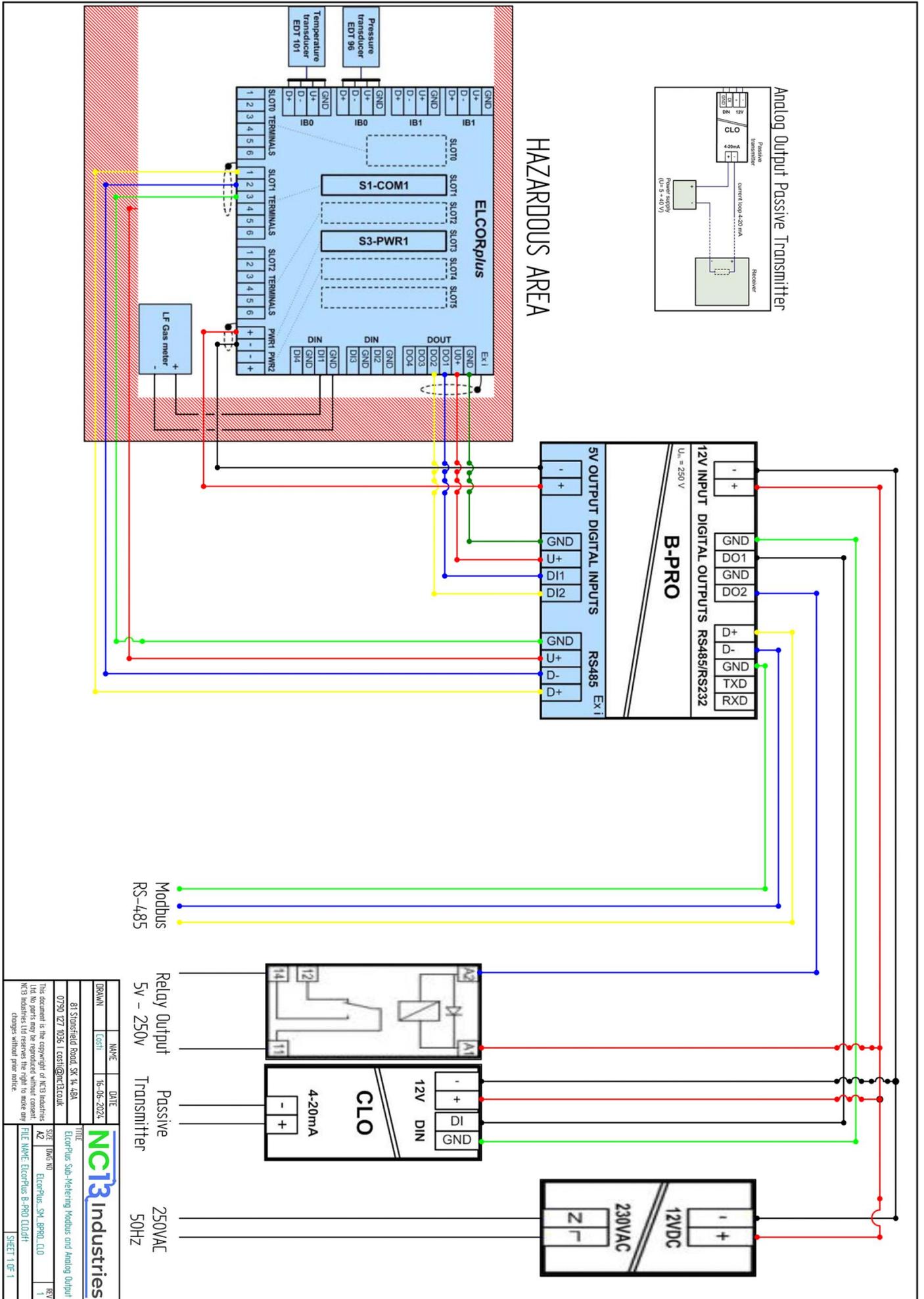
Contact us today to learn more about our solutions and how they can benefit your business!

Email: BMS@nc13.co.uk

Phone: 0161.566.2739

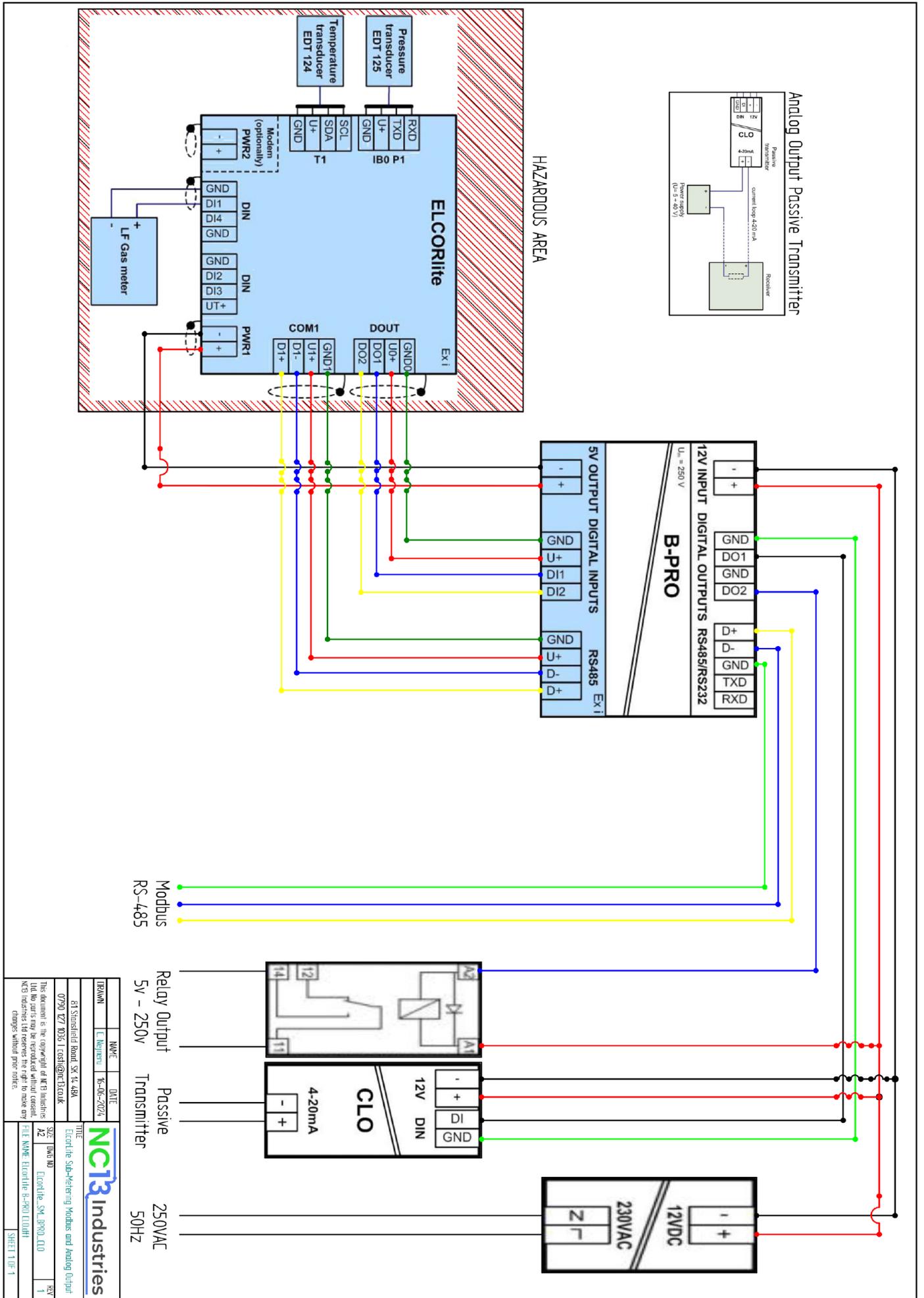
<https://www.nc13.co.uk/>



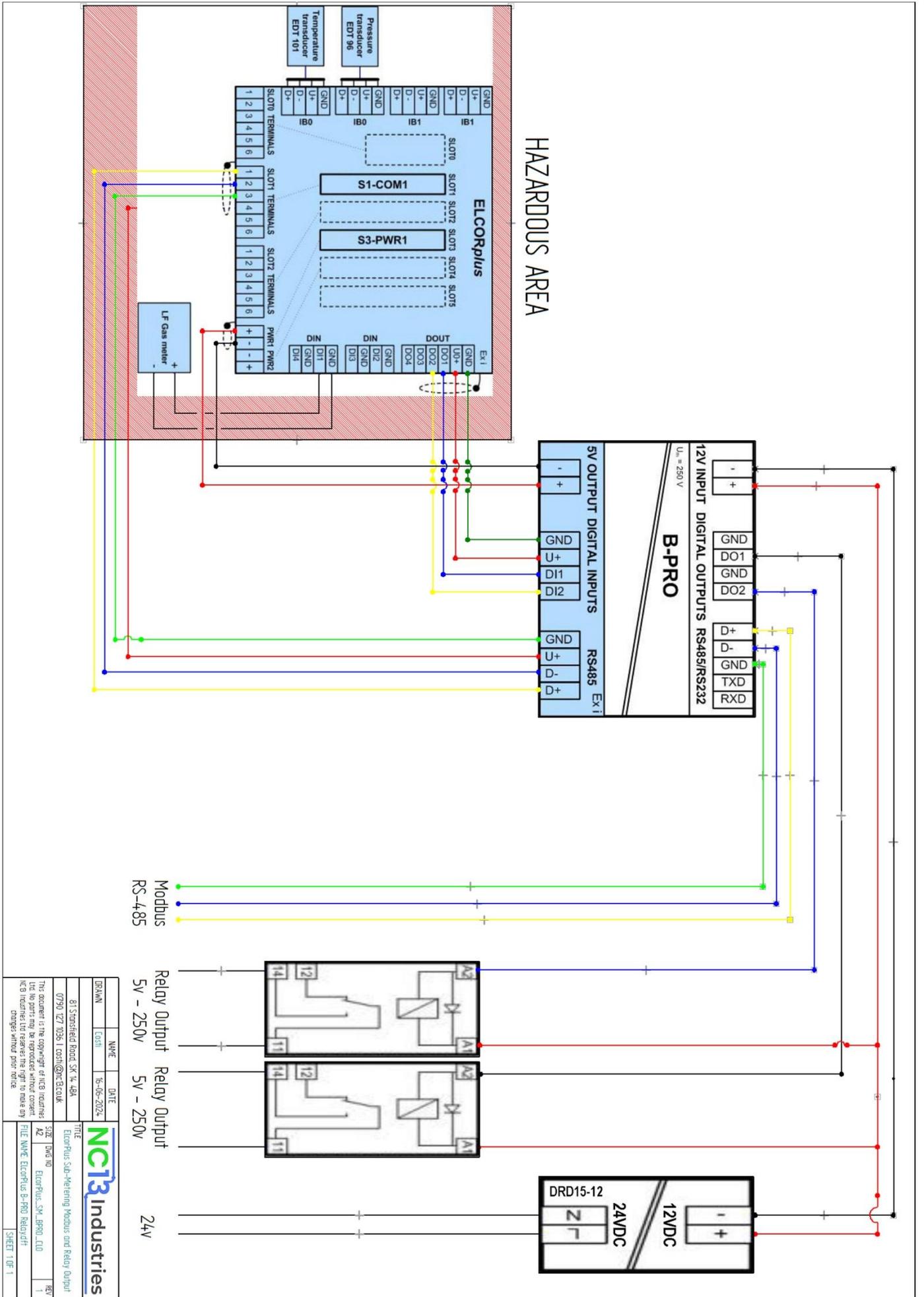


NAME	DATE	
DRAWN Costel	16-05-2024	
81 Stansfield Road, SK14 4BA		NCT3 Industries EcorPlus Sub-Meeting Module and Analog Output
0790 727 006 costel@nct3.co.uk		
SIZE	FORM NO	REV
A2	EcorPlus_SK_PP90_CU0	1
FILE NAME: EcorPlus_B-PRO_CU0.DWG		SHEET 1 OF 1

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TRAWN	NAME	DATE
	C. Nejnaru	16-06-2024
81 Stansfield Road, SK14 4BA 0790 27 0056 costel@nct3.co.uk		
TITLE: Ecorite Sub-metering Modems and Analog Output		
SIZE: DWG/NO A2 Ecorite_Sm_B900_CIO		
FILE NAME: Ecorite_B-PRO_CIO.DWG		
SHEET 1 OF 1		



IRAWM	NAME	DATE
Costel		16-06-2024
81 Stansfield Road, SK14 4BA 0790 727 0350 costel@nct3.co.uk		
NCT3 Industries ELCORplus S&M-Wiring Modbus and Relay Output		
SIZE	DWG NO	REV
A2	ELCORplus-S&M-RRPO-LOU	1
FILE NAME: ELCORplus-B-PRO-RelayOut		
SHEET 1 OF 1		