



TOUCH, SEE, SECURE THE SMART GAS DETECTION FOR LAB SAFETY

Smart Connectivity
Smart Maintenance

Smart Data Visualisation

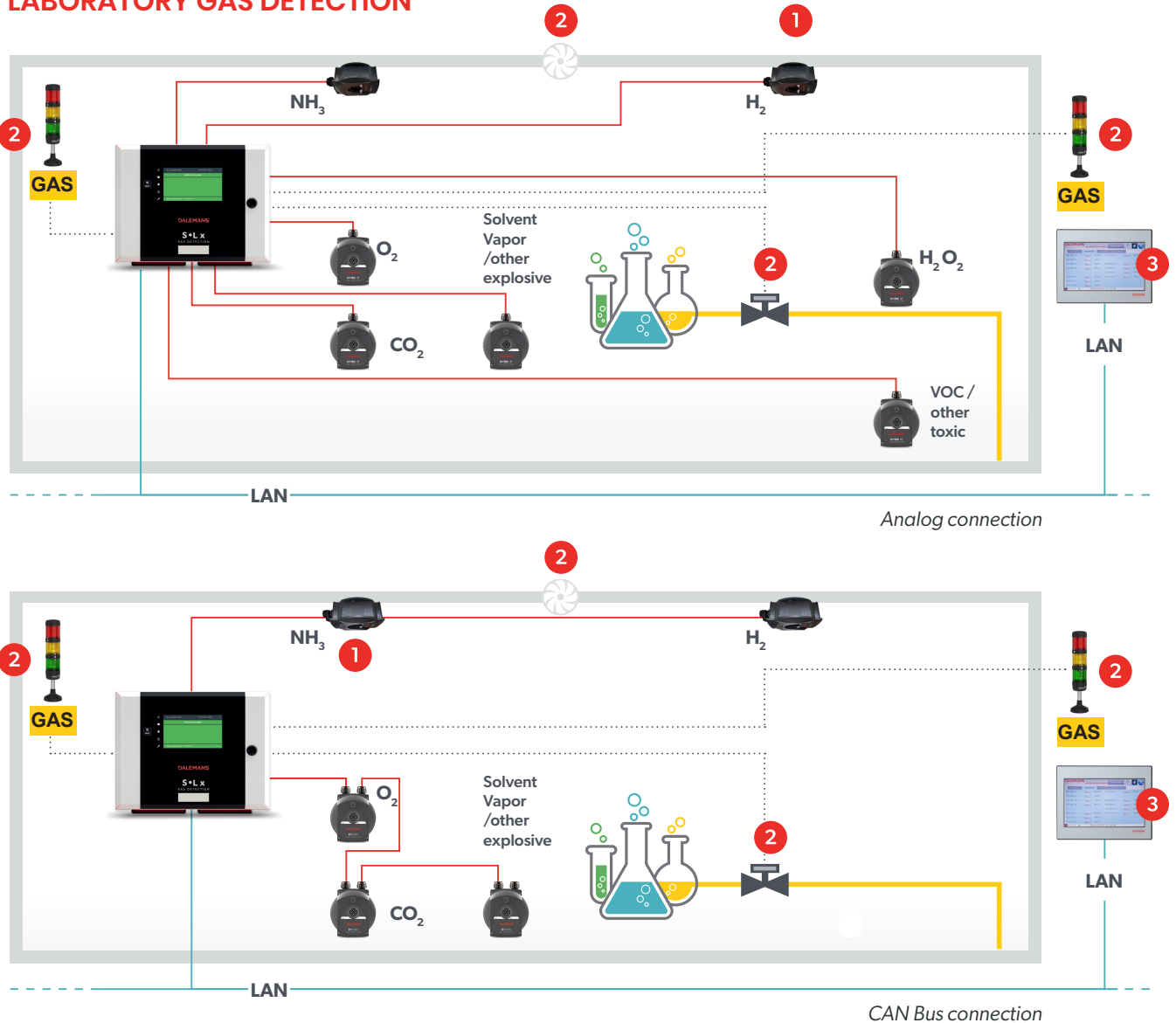


DALEMANS®
G A S D E T E C T I O N



S•Lx

LABORATORY GAS DETECTION



PRODUCT DESCRIPTION

The S•Lx control unit is a device that allows the monitoring of gas concentrations of many potentially harmful gases in order to take immediate actions before a danger materializes.

S•Lx is designed to operate within laboratory or industrial buildings requiring the presence of numerous gas detectors.

Combined with D•CAN, D•420, D•TEX 420, DAX•420 or DAT•420 detectors, the S•Lx alarm control unit can easily monitor gas concentrations for very complex installations.

1 Gas detectors

Versatility to connect gas detectors for the measurement of toxic and explosive gases via a CAN Bus line and/or via 4..20mA signal.

2 Output relays

Six output relays (base).
Allows the control of auxiliary servomechanisms:

- › Ventilators,
- › Alarm sirens,
- › Flash lamps,
- › Luminous panels,
- › Gas valves,...

Expansion cards with up to 2x 6 addressable output relays.

3 Real-time data visualization

Allows the remote visualization of installation data via the LAN (Modbus TCP).



S•Lx

| CATEGORY | CHARACTERISTIC | VALUE |
|----------------------|---|---|
| POWER SUPPLY | Mains voltage & frequency | 230V AC ~ 50Hz |
| | Input current | Max 1.5A @ 230V AC |
| | Available power per unit (for detectors, batteries and internal parts) | 151W |
| | Batteries | 2x 12V VLRA 7Ah (optional) Higher capacities available in a separate battery pack (S•BP) |
| ENCLOSURE | Material | Powder coated steel enclosure |
| | External dimensions | 407 x 310 x 152 mm |
| | Weight | 8.6kg (without batteries) |
| | Ingress protection Indice de protection IP | IP 55 (dust and water jets protected) |
| | Wall mounting with separate backplate | YES |
| CONNECTION | Hinged door for easy maintenance | YES |
| | Cables entries | 5x 3.2-6.3mm ext. diameter / 16x 4-7.5mm ext. diameter / 5x 5.5-10.5mm ext. diameter / 12x 8-12.5mm ext. diameter / |
| | Wire terminals (excepted CAN and Ethernet) | 0.75mm ² - 2.5mm ² wires |
| INPUTS | Digital detectors (CAN Bus) | Up to 126x per CAN interface Maximum 240x per system |
| | Digital detector Interfaces (CAN Bus) | 1 x (base), or 3x (optional) |
| | Maximum current output per interface (CAN Bus) | 1.6A (@ 40°C) to 1.8A (@ 20°C) |
| | Current loop detectors | 0 (base), 8x or 16x (optional) 2-wires or 3-wires 4..20mA |
| | Maximum current output per current loop detectors | 80mA (@ 40°C) to 100mA (@ 20°C) |
| | Cabling length | Up to 1000m for each CAN Bus Up to 300m for each current loop |
| | Cable type | CAN: 2x2x0.75mm ² shielded or Ethernet S/FTP 0.5mm ² Current loops: minimum 0.75mm ² shielded |
| | External alarm input | 1x input, ON/OFF 24V DC, configurable behavior |
| | Alarms: programmable changeover relays | 6x (base), 12x, or 18x (optional) 3 poles NC-NO-C, max. 230V / 3A |
| OUTPUTS | Fault: changeover relay | 1x, failsafe mode, 3 poles NC-NO-C 3 poles NC-NO-C, max. 230V / 3A |
| | Analog outputs | 0 (base), 1x or 2x (optional) 4..20mA/0..20mA/0..10V |
| | Siren output | 1x, with active output 24V DC - 200mA max |
| | Digital communication | 1x Ethernet RJ45 with MODBUS TCP protocol 1x Internal connectivity board slot for co-engineered connectivity solutions |
| | Display | 7" capacitive TFT touchscreen with bright colors |
| INTERFACE | LED indicators | 5x : Power, Battery, Alarm, Fault, Maintenance |
| | IMute/Reset button | Available on the front panel |
| | Service port | 1x jack 3.5mm with serial to USB PC connector |
| | LED Status Ring | 1x |
| MAIN FUNCTIONS | Configurable alarm levels | Up to 4x for each detector Alarm types: Instantaneous, average, and qualifying timer |
| | I/O mapping | Configurable logic between inputs (e.g. alarms & faults) and outputs (e.g. relays) |
| | Maintenance alert | Easy zone creation using the configuration software |
| | Display of events and statuses | Configurable interval, with clear reminders on the display |
| | Measurements display | Internal event journal with filters Clear main screen with event information |
| | Datalogging | Clear measurements visualization |
| | Customizable labels | Yes (optional), measurements and events, using a high-capacity SD card with CSV files |
| | Reliability | Detector locations, control unit name, ext. alarm names, relays names |
| | | Self-tests at power on and continuously |
| OPERATING CONDITIONS | Temperature | Continuous data integrity checks |
| | Humidity | Continuous voltage monitoring |
| | Pressure | Continuous program sequence monitoring |
| | Altitude | -10°C to 40°C |
| | Pollution degree | 10% to 90% RH (non-condensing) |
| | Overvoltage category | 90 to 110kPa |
| CERTIFICATIONS | Electromagnetic compatibility (EMC) | Maximum 2000m |
| | Low-voltage safety | 2 |
| | Workplace atmospheres | III |
| | Marking | EN 50270 (type 2) EN 61010-1 EN-62990-1 CE, RoHS, WEEE, IP55 |



S•Lx

S•Lx CONFIGURATIONS OPTIONS

| Part Number | Description | S•Lx BASE | CAN BUS EXTENSION | RELAYS 7-12 EXTENSION | RELAYS 13-18 EXTENSION | ANALOG IN. 1-8 EXTENSION | ANALOG IN. 9-16 EXTENSION |
|-------------|---|-----------|-------------------|-----------------------|------------------------|--------------------------|---------------------------|
| 03697 | S•Lx, 1x CAN Bus (2 lines), 6 relays | ✓ | | | | | |
| 03698 | S•Lx, 1x CAN Bus (2 lines), 12 relays | ✓ | | ✓ | | | |
| 03699 | S•Lx, 1x CAN Bus (2 lines), 18 relays | ✓ | | ✓ | ✓ | | |
| 03700 | S•Lx, 3x CAN Bus (6 lines), 6 relays | ✓ | ✓ | | | | |
| 03701 | S•Lx, 3x CAN Bus (6 lines), 12 relays | ✓ | ✓ | ✓ | | | |
| 03702 | S•Lx, 3x CAN Bus (6 lines), 18 relays | ✓ | ✓ | ✓ | ✓ | | |
| 03703 | S•Lx, 1x CAN Bus (2 lines), 6 relays, 8 analog inputs | ✓ | | | | ✓ | |
| 03704 | S•Lx, 1x CAN Bus (2 lines), 12 relays, 8 analog inputs | ✓ | | ✓ | | ✓ | |
| 03705 | S•Lx, 1x CAN Bus (2 lines), 18 relays, 8 analog inputs | ✓ | | ✓ | ✓ | ✓ | |
| 03706 | S•Lx, 1x CAN Bus (2 lines), 6 relays, 16 analog inputs | ✓ | | | | ✓ | ✓ |
| 03707 | S•Lx, 1x CAN Bus (2 lines), 12 relays, 16 analog inputs | ✓ | | ✓ | | ✓ | ✓ |
| 03708 | S•Lx, 1x CAN Bus (2 lines), 18 relays, 16 analog inputs | ✓ | | ✓ | ✓ | ✓ | ✓ |

One must choose between mounting a CAN Extension board or one or two 420 Extension boards. They cannot be installed simultaneously.

The total current of interfaces must take into account the power available to the unit. Please refer to the technical documentation and to Dalemans representatives.

