# iTX Multi-Gas Monitor

- **Completely customizable and field upgradable**
- **User configurable datalogging functions – up to 300 hours of storage time**
- **Monitors from one to six gases simultaneously and continuously**
- **Quick-Cal function calibrates four sensors simultaneously.**
- **High, Low, STEL and TWA alarms for all sensors**
- **LEL/$CH_4$ over range protection**
- **Displays last cal date and next cal due reminders**
- **Configurable security access code protects all calibration and alarm settings.**
- **Interchangeable, lithium-ion battery pack can be charged in/out of the monitor.**
- **Docking Station™ compatible**

The iTX Multi-Gas Monitor is the industry's most versatile portable gas detection instrument. Designed to grow with you as your monitoring needs change, the iTX can go from being a single gas unit to a six-gas monitor, or anything in between, with just a few simple user configurations and sensor changes. Featuring advanced "smart" sensor technology, the iTX is capable of recognizing and configuring a wide assortment of field replaceable, interchangeable sensors. Enhanced benefits include a 50 ppm resolution for hydrocarbons, LEL and methane sensor over range protection, and a four electrode ammonia sensor for increased stability. Providing simplified, single-button operation and calibration functions, the iTX's special Quick-Cal feature quickly calibrates up to four sensors at once, saving time and calibration gas costs.

The iTX provides superior, user configurable datalogging and hygiene functions which allow the monitor to store up to 300 hours of survey data at one minute intervals. The unit also includes STEL and TWA readings and alarms as well as iButton® technology, which allows the operator to input user data and site information.

The iTX also features a backlit LCD that simultaneously displays all gases monitored, ultra-bright LED visual alarms and a powerful 90 dB audible alarm, all encased in a compact, rugged stainless steel housing to provide maximum durability and RFI protection.

The iTX boasts superior security and safety features including configurable user access codes to protect calibration and alarm settings, and a time delay power button to prevent accidental turnoff. The unit is also DS2 compatible to utilize the additional benefits of the Docking Station™.

## SPECIFICATIONS

| | |
|---|---|
| *CASE:* | Ultra-tough 24 gauge stainless steel, type 304 |
| *DIMENSIONS:* | 4.75" x 3.19" x 1.68" (121 mm x 81 mm x 43 mm) |
| *WEIGHT:* | 18.5 oz (524.5 g) |
| *SENSORS:* | LEL, $CH_4$ – Catalytic diffusion |
| | $O_2$, CO, $H_2$, $H_2S$, $SO_2$, $NO_2$, HCN, HCL, $Cl_2$, NO, $ClO_2$, $NH_3$, $PH_3$, $CO/H_2S$ – Electrochemical |
| *MEASURING RANGES:* | *LEL* – 50 ppm to 100% LEL in 1% increments |
| | *Methane* – 0 to 5% $CH_4$ in 0.1% increments |
| | *Oxygen* – 0 to 30% $O_2$ in 0.1% increments |
| | *Carbon Monoxide, Hydrogen, Hydrogen Sulfide, Nitric Oxide* – 0 to 999 ppm in 1ppm incr. |
| | *Sulfur Dioxide, Nitrogen Dioxide* – 0.2 to 99.9 ppm in 0.1 ppm increments |
| | *Hydrogen Cyanide, Hydrogen Chloride* – 0.2 to 30 ppm in 0.1 ppm increments |
| | *Chlorine* – 0.2 to 50 ppm in 0.1 ppm increments |
| | *Ammonia* – 0 to 200 ppm in 1 ppm increments (displayed concentrations 999 ppm) |
| | *Chlorine Dioxide, Phosphine* – 0 to 1 ppm in 0.01 ppm increments |
| *POWER SOURCE (RUN TIME):* | Rechargeable lithium-ion (24 hours typical) or Alkaline pack (12 hours typical) |
| *TEMPERATURE RANGES:* | -4°F to 122°F (-20°C to 50°C) typical |
| *HUMIDITY RANGE:* | 15 to 95% RH typical (non-condensing) |
| *APPROVALS:* | UL and CSA – Intrinsically Safe for Class I, Groups A, B, C, D |
| | CENELEC (ATEX) – EEx ia IIC T4 MSHA – Intrinsically safe for Methane/Air mixtures only |
| *RFI PROTECTION:* | Certified to European Standard EN50081-2 |

*The iTX has numerous sensor and equipment combinations. The following matrix will help you to select the options that best suit your needs. For example: An iTX with $O_2$, LEL, CO, and $H_2S$ sensors, with a lithium-ion battery would have a part number of 18104307-**11014**.*

## ORDERING MATRIX

| 18104307-ABCDEF | A | B | C* | D | E | F |
|---|---|---|---|---|---|---|
| | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | ***English*** |
| | 1 - $O_2$ | 1 - LEL | 1 - CO (high) | 1 - CO | 1 - CO | __ - Lithium-ion |
| | | 2 - $CH_4$ | 2 - NO | 2 - NO | 2 - NO | A - Alkaline pack |
| | | | 3 - $NH_3$ | 3 - None | 3 - None | |
| | | | 4 - $H_2S$ | 4 - $H_2S$ | 4 - $H_2S$ | ***French*** |
| | | | 5 - $SO_2$ | 5 - $SO_2$ | 5 - $SO_2$ | 1- Lithium-ion |
| | | | 6 - $NO_2$ | 6 - $NO_2$ | 6 - $NO_2$ | 2 - Alkaline pack |
| | | | 7 - None | 7 - $Cl_2$ | 7 - $Cl_2$ | |
| | | | 8 - None | 8 - HCl | 8 - HCl | ***Spanish*** |
| | | | 9 - None | 9 - HCN | 9 - HCN | 5 - Lithium-ion |
| | | | A - None | A - $ClO_2$ | A - $ClO_2$ | 6 - Alkaline pack |
| | | | B - $CO/H_2$ Null | B - None | B - None | |
| | | | C - None | C - None | C - None | |
| | | | D - None | D - $PH_3$ | D - $PH_3$ | |
| | | | E - None | E - $H_2$ | E - $H_2$ | |
| | | | F - $CO/H_2S$ | | | |

**Select sensors under column "C" only for three, five and six gas configurations or for special application sensors.*

## STANDARD CONFIGURATIONS and ACCESSORIES

| PART NUMBER | DESCRIPTION |
|---|---|
| 18104307-11014 | iTX – $O_2$, LEL, CO, $H_2S$ with lithium-ion battery pack |
| 18104307-11100 | iTX – $O_2$, LEL, CO, with lithium-ion battery pack |
| 18104307-11400 | iTX – $O_2$, LEL, $H_2S$ with lithium-ion battery pack |
| 18104307-11000 | iTX – $O_2$, LEL, with lithium-ion battery pack |
| 18104307-1147A | iTX – $O_2$, LEL, $H_2S$, $C1_2$, $ClO_2$, with lithium-ion battery pack |
| 18104646 | iSP motorized sampling pump |
| 18104315 | iTX single-unit compact charger *(120 VAC. For 230 VAC: Part Number 18105304)* |
| 18104711-*(120 or 230)* | iTX lithium-ion battery charger/datalink *(specify voltage)* |
| 18104737-*(120 or 230)* | iTX lithium-ion battery charger/datalink w/datalog & configuration software kit *(specify voltage)* |
| 18105551 | DS2, iTX Instrument Docking Station™ |
| 18104505 | iTX IDM for DS1000 Docking Station™ |

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