

Intelligens/COMLog™IS User Manual 2/2

- Safety Supplement



Warning: This manual contains important safety and operating information.
Please read, understand and follow the instructions / warnings contained in this manual.

Label drawings and Entity Parameters

Intelligens and COMLog™IS

Note: Information for this label is duplicated on the front face label.

XXXXXXXXXXXXXX PN:- XXXXXXXXXXXXXXXX	
SN:-	XXXXX
SMS:-	XXXXXXXXXXXXXX
NETWORK:-	XXXXXXX
DOM:-	XX/XX/XXX
*** BARCODE***	
II 1 G Ex ia IIC T4	XXXXXXXXXX
XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
-20°C ≤ TAMB ≤ +60°C	
WARNING- POTENTIAL ELECTROSTATIC DISCHARGING HAZARD, DO NOT RUB WITH DRY CLOTH	
WARNING - DO NOT OPEN WHEN EXPLOSIVE ATMOSPHERE IS PRESENT	
WARNING - DO NOT REPLACE BATTERY WHEN EXPLOSIVE ATMOSPHERE IS PRESENT	
USE ONLY REPLACEABLE BATTERY PACK XXXXXXXXXXXXXX	
WEB ADDRESS	

	Output Parameters	Input Parameters
External Power Inputs	Uo = 5.4 V Io = 1.1 mA Po = 1.5 mW Co = 1.4 uF Lo = 3.3 uH	Ui = 12 V Ii = 3.3 A Pi = 12 W Ci = 0 Li = 0
Flow/Status Inputs	Uo = 5.88 V Io = 1.19 mA Po = 1.76 mW Co = 42 uF Lo = 24 H	Ci = 50 pF Li = 38 uH
Configuration Interface	Uo = 5.88 V Io = 11.88 mA Po = 17.46 mW Co = 42 uF Lo = 249 mH	Ci = 40 pF Li = 1 mH
SonicSens Ultrasonic Level Sensor	Uo = 5.4 V Io = 16 mA Po = 24 mW Co = 64 uF Lo = 138 mH	Ui = 7.14 V Ii = 15 mA Pi = 26 mW Ci = 30 pF Li = 1 mH
External Equipment Power Output	Uo = 12 V Io = 430 mA Po = 1.24 W Co = 1.41 uF Lo = 0.15 mH	Ci = 0 Li = 0
GSM Antenna Simple Apparatus	Uo = 12 V Io = 0.6 uA Po = 7.2 uW Co = 1.4 uF Lo = 95 MH	Ci = 500 pF Li = 0
Pulse Replication Outputs	Uo = 5.4 V Io = 1.09 mA Po = 1.61 mW Co = 65 uF Lo = 29 H	Ui = 24 V Ii = 174 mA Pi = 720 mW Ci = 0 Li = 0
PT100 Temperature Probe Simple Apparatus	Uo = 5.88 V Io = 24 mA Po = 36 mW Co = 43 uF Lo = 60 mH	Ci = 0 Li = 1 mH
External Pressure Sensor	Uo = 5.88 V Io = 0.68 A Po = 1.1 W Co = 42 uF Lo = 32 uH	Ci = 40 pF Li = 38 uH
External Sensor Interface	Uo = 5.88 V Io = 33 mA Po = 49 mW Co = 42 uF Lo = 30 mH	Ci = 40 pF Li = 38.4 uH

HWM contact address

(Appears on all three parts)



HWM-Water-Limited
Ty Coch House,
Llantarnam Park Way,
Cwmbran,
NP44 3AW, UK.

Battery Pack

INTBATTPACK/7V2/H95x
'x' indicates pack variant.

BATTERY PACK	
PN:	XXXXXXXXXXXXXX
SN:	XXXXXXXXXXXXXX
DOM:	XX/XX/XXXX
RATING:	XX.XV XXAh
TEST REV:	XX.XX
TESTED BY:	IDXXX (XXX)
<p>WARNING</p> <p>This product contains a lithium thionyl chloride (Li-SOCL₂) battery pack.</p> <p>Do not attempt to open, disassemble or service the battery pack.</p> <p>Do not crush, puncture, short external contact or heat above 100°C(212°F).</p> <p>Under no circumstances should the battery be recharged.</p> <p>Dispose of in accordance with local regulations.</p> <p>Do not dispose of in fire or water.</p> <p>Do not carry, or lift this product by the cable, replace only with designated battery pack</p>	
USE ONLY ON: XXXXXXXXXXXXXXXX	
	XXXXXXXXXX XXXXXXXX XX
*** BARCODE ***	
XXXXXXXXXXXXXXXXXX	

Serial Communications lead

COMMS USB/IS and
COMMS-Y USB/IS

Output Parameters	Input Parameters
Um = 250 V Uo = 5.88 V Io = 11.88 mA Po = 17.46 mW Co = 42 uF Lo = 250 mH	Ci = 0 Li = 0

XXXXXXXXXX PN: XXXXXXXXXXXXXXXX XXXXXXXXXX	
XXX	
II 1 G Ex ia IIC T4 Ga	XXXXXXXXXX
XXXXXXXXXXXXXX	XXXXXXXXXXXXXX -20°C ≤ TAMB ≤ +60°C
WARNING - DO NOT REPLACE BATTERY WHEN EXPLOSIVE ATMOSPHERE IS PRESENT	
WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD, DO NOT RUB WITH A DRY CLOTH.	
SERIAL NUMBER	
Barcode	
XXXXXX	

Part Number make-up – H95/xxxxxxx/xxxxxx/IS

H95	/xxxxxxx	/xxxxxx	/IS
HWM Logger Type No	Antenna, Communications & Input Channel Configuration	Modem opt	Safety Designation

See appendix 4 in the Basic User Guide Part 1/2 (MAN-142-0001) for details of the options available



Warning:

For the Intelligens or COMLog™IS, the connected intrinsically safe equipment must be certified with Entity Parameters.

Any intrinsically safe equipment intended for connection to the Intelligens or COMLog™IS must have compatible Entity Parameters and be connected and installed as per the manufacturer's instructions.

Configuration of Intelligens or COMLog™IS

Serial communications is provided via the serial port. Communication to the logger to setup/configure the data logger is via a dedicated Intrinsically Safe Serial Communications lead (**COMMS USB/IS or COMMS-Y USB/IS**) that plugs into a PC USB port.



Warnings:

- POTENTIAL ELECTROSTATIC CHARGING HAZARD, DO NOT RUB WITH A DRY CLOTH.
- POTENTIAL ELECTROSTATIC CHARGING HAZARD - THE INSTALLATION BRACKET MUST BE APPROPRIATELY CONNECTED TO EARTH IF ATTACHED TO A NON-CONDUCTIVE SURFACE.
- DO NOT OPEN WHEN EXPLOSIVE ATMOSPHERE IS PRESENT.
- DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
- ONLY USE SPECIFIED COMMUNICATION CABLE **COMMS USB/IS or COMMS-Y USB/IS**.
- ONLY THE **INTELLIGENS/COMLOG™IS** IS ALLOWED TO BE IN THE HAZARDOUS AREA. IT CAN ALSO BE CONFIGURED IN THE HAZARDOUS AREA, BUT WILL BE VIA THE SPECIFIED COMMUNICATION CABLE WHICH SHALL BE LOCATED WITH THE COMPUTER IN THE NON-HAZARDOUS AREA.
- THE COMPUTER USED TO CONFIGURE THE **INTELLIGENS/COMLOG™IS** IN THE HAZARDOUS AREA MUST NOT BE CONNECTED TO THE MAINS ELECTRICAL SUPPLY OR ANY OTHER EQUIPMENT THAT IS CONNECTED TO A MAINS SUPPLY DURING CONFIGURATION.



Warning: Contains Lithium Batteries

If batteries are exposed - do not short circuit, re-charge, puncture, incinerate, crush, immerse, force discharge or expose to temperatures above the declared operating temperature range of the product. **Risk of fire or explosion.** These batteries are sealed units which are not hazardous when used according to the recommendations.

Note: - The GPRS modem fitted has a maximum output of up to ≤2W of RF Power.

Additional information is available in the Basic User guide Part 1/2 (MAN-142-0001) available from the HWM website.

If further support or assistance is required, please contact HWM Technical Support on 01633 489479 (option 5) or e-mail: cservice@HWM-Water.com

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