Intelligens/COMLog[™]IS Safety Supplement

MANEX-142-0002

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Document Control

Issue	Details	Author	Date
1	Draft	AE	28/01/2015
2	Update	AE	10/03/2015
3	Updated images and addition of Battery exchange	AE	19/03/2015
4	Updated option tables	AE	26/03/2015
5	Updated input channel table and pictures	AE	13/04/2015
А	First Release	AE	13/04/2015
В	General Update	AE	10/06/2015
С	Updated Address label	AE	13/07/2015
D	Corrections to part number examples	AE	14/07/2015
E	Installation bracket grounded to earth warning added.	DRC/A	01/09/2015
	Main label added. General compression and re-	E	
	distribution of book 1 & 2 content		
F	Update of part number, Modem option	AE	26/10/15
G	Update to add External Sensor Interface parameters	AE	25/01/16
Н	Modem change to xE910series, addition of EEI power	BB	17/10/2017
	output, update to External Sensor Interface		
	parameters and update of web address		
	Addition of External Equipment Power Output	JRF	23/11/2017
J	Labels changed to support EVE as alternative battery	JRF	30/01/2019
	pack supplier. HIS/xxxx/xx/xxxxxx added to battery		
	pack label to support ISLog.		
К	Battery pack label updated to support additional	DGC	10/11/2020
	products.		

SCHEDULE DRAWING

Certified product. No modifications permitted to this drawing without approval of an ATEX authorised person. Any modifications must also be submitted to the Notified Body for approval.



Input

Ui = 12 V

li = 3.3 A

Pi = 12 W

Ci = 50 pF

Li = 38 uH

Ci = 40 pF

Li = 1 mH

Ui = 7.14 V

Pi = 26 mW

li = 15 mA

Ci = 30 pF

li = 1 mH

Ci = 0

Li = 0

Parameters

Output

Parameters

Uo = 5.4 V

lo = 1.1 mA

Po = 1.5 mW

Co = 1.4 uF

Lo = 3.3 uH

 $U_0 = 5.88 V$

Co = 42 uF

Lo = 24 H Uo = 5.88 V lo = 11.88 mA

Co = 42 uF Lo = 249 mH

Uo = 5.4 V

lo = 16 mA

Co = 64 uF

Po = 24 mW

 $l_{0} = 138 \text{ mH}$

lo = 1.19 mA

Po = 1.76 mW

Po = 17.46 mW

External Power

Inputs

Flow/Status

Inputs

Configuration

Interface

SonicSens

Ultrasonic Level

Sensor

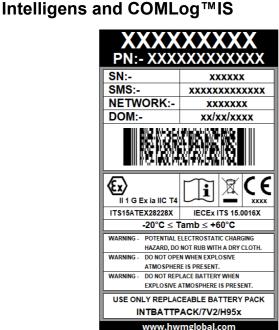
Intelligens/COMLog™IS User Manual 2/2 Safety Supplement - Version 1.7



Company Website

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



	-20°C ≤ Tamb ≤ +00°C			Lo = 138 mH	Li = 1 mH
	WARNING - POTENTIAL ELECTROSTATIC CHARGING			Uo = 12 V	
	HAZARD, DO NOT RUB WITH A DRY CLOTH.		External	$l_0 = 430 \text{ mA}$	
	WARNING - DO NOT OPEN WHEN EXPLOSIVE		Equipment Power	$P_0 = 1.24 W$	Ci = 0
	ATMOSPHERE IS PRESENT.		Output	Co = 1.41 uF	Li = 0
	WARNING - DO NOT REPLACE BATTERY WHEN		- arp ar	Lo = 0.15 mH	
	EXPLOSIVE ATMOSPHERE IS PRESENT.				
	USE ONLY REPLACEABLE BATTERY PACK		GSM Antenna	Uo = 12 V	
	INTBATTPACK/7V2/H95x		Simple	lo = 0.6 uA	Ci = 500 pF
				Po = 7.2 uvv	Li = 0
	www.hwmglobal.com		Apparatus	Co = 1.4 uF	
				Lo = 95 MH	
					Ui = 24 V
Note – Information for this label is duplicated on the front			Pulse Replication Outputs		li = 174 mA
				Po = 1.61 mW	Pi = 720 mW
face label			C alpuito		Ci = 0
				Lo = 29 H	Li = 0
			PT100	Uo = 5.88 V	
			Temperature	lo = 24 mA	0:-0
HWM contact	address		Probe Simple Apparatus	$P_0 = 36 \text{ mW}$	Ci = 0
(Appears on a	ll three parte)			Co = 43 uF	Li = 1 mH
(Appears on a	n three parts)			Lo = 60 mH	
			-	Uo = 5.88 V	
	M-Water-Limited		External	$l_{0} = 0.68 \text{ A}$	
	Coch House,		Pressure	$P_0 = 1.1 W/$	Ci = 40 pF
	ntarnam Park Way,		Sensor	$C_0 = 42 \text{ uF}$	Li = 38 uH
www.hwmglobal.com Cwmbran,			Sensor	Lo = 32 uH	
+44 1633 489479 NP4	14 3AW, UK.			$U_0 = 5.88 V$	
	ř			10 = 33 mA	
			External Sensor	$P_0 = 49 \text{ mW}$	Ci = 40 pF
			Interface		Li = 38.4 uH
				Co = 42 uF	
				Lo = 30 mH	
Battery Pack INTBATTPAC 'x' indicates pack BATTERY PAC	ack variant.		munications SB/IS and CO XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	lead MMS-Y USB/I	S
SN:- XXXX DOM:- XX/XX/	XXXX	w	ww.nwmglobal.com	Output	Input
RATING:- XX.Xv.				Parameters	Parameters
TEST REV:- XX.) TESTED BY:- IDXXX	(XXX)		HWM		
WARNING - This product contains a lithium thionyl chi			\sim	Um = 250 V	
battery pack.		(Ex)	II X C E	Uo = 5.88 V	
Do not attempt to open, disassemble or servi Do not crush, puncture, short external conta	ce the battery pack. acts or heat above	II (1) G [Ex		lo = 11.88 mA	Ci = 0
100°C (212°F). Under no circumstances should the battery	pack be recharged.		X2XXXXXX IECEX ITS 15.XXXXXX	Po = 17.46 mW	
Dispose of in accordance with local r Do not dispose of in fire or wa	egulations.		20°C ≤ Tamb ≤ +60°C		LI – 0
Do not carry, or lift this product by	the cable.	11.7	$20^{\circ}C \le 1 \text{ amb} \le +60^{\circ}C$	Co = 42 uF	
Replace only with a designated batt	tery park.	HA	ZARD, DO NOT RUB WITH A DRY CLOTH.	Lo = 250 mH	
USE ONLY ON:- XXXX			D NOT OPEN WHEN EXPLOSIVE MOSPHERE IS PRESENT.		
	ompany		need that is the sent.		
	ddress	1			
*** BARCODE***		- 0			

XXXXXX

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

H95	/xxxxxx	/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 $\leq 2W$ 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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