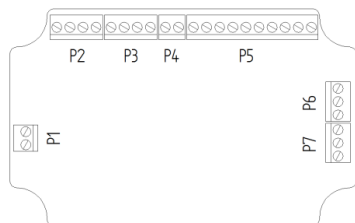# Infield
Instrument ab

Control crane and tractor from your smartphone!

Our control system, IF32 -
Powerfull, compact but still so simple...

- Everything can be operated from your smartphone.
- Wide selection of professional joysticks for both cab and control unit.
- Handles up to 9 bidirectional functions in one box.
- Connect slave boxes and get 9 extra functions with each box.
- Quick buttons on the joystick for selecting 4x6-function menus.
- Control lights, heater, etc., from the control unit or from your smartphone.
  With unidirectional functions, the number of outputs doubles.
- Communication via LoRa radio, GSM, or cable.
- Can be connected to 12V and 24V systems.

Send you´re request to: *info@infield.se*

dok. nr 0002-1333, rev. i

P1	Emergency stop (stoped when open circuit)
P2,3	PowerIn/RS485 (1=GND, 2=+7-30V, 3=A-ch, 4=B-ch)
P4	Power from battery (if needed, 1=GND, 2=+7-30V)
P5	Analog in (1=GND, 2=+3.3/24V, 3-10=Iin0..7/Uin0..7)
P6,7	2 bipolar/4 unipolar PWM outputs, 0/24V (1=GND, 2..3=0/+24V)

Technical data (preliminary) – IF32 "Lite"   **IF32 lite box**

Power	7 – 30VDC	
Max current	2.5A	
Analog in		
- no.	8ch	
- ingångar typ, insignal	0 – 3.3V / 4-20mA	State when ordering for each inport ch.
- inports, sample frequency	min 1kHz	Application dependent
Outports		
- no.	2 bipolar/4 unipolar	Bipolar/unipolar is config.
- outports, type	On off/PWM	Configurable
- outports, PWM freq.	5Hz – 5kHz	
- outports, max current	1A	Max tot. current consumption (2A) must not be exceeded.
- utgångar, spänning	Voltage in -2V	E.g. voltage drop to outports.
External memory	32GB uSD-kort	Accessible from front.
Internal memory	128k Flash	Non volatile memory.
Display	LCD 128x64 pix.	With backlight.
Inmatning	1 control wheel with 1 push button	
Wired communication		
- speed	>100 kBit/s	
- cable type	Min 4x0.35mm2 twisted pair	Note. Power over bus cable may require thicker leads.
- max. cable length	1 km	Note. Power over bus cable may reduce max distance.
Wireless communication, BlueTooth (option)		
- speed	>50 kBit/s	
- range	>100m	In open terrain
LoRa communication, LoRa (long range radio)		
- speed	max 50 kBit/s	
- range	>100m	In open terrain
Wireless comm. GSM		
- wireless communication GSM	GPRS	GSM
Measures		
LxWxD	100x65x40mm	External antenna adds aprox. 50mm.
Environmental durability	Fully adapted for mobile environment.	
Real time clock	aprox 24h	Capacitor powered