ENG

Version 3.0 OVERVIEW

MICROBEAST

3 AXIS MEMS GYRO SYSTEM FOR RC-MODEL AIRCRAFT

WWW.BEASTX.COM

SETUP MENU

(Menu LED is steady ON)

	Status-LED:	off	purple	red *flashing*	red	blue *flashing*	blue
A	**Mounting orientation**				upright (vertical)		flat (horizontal)*
B	Swashplate servo - **frequency**	**user defined**	50 Hz*	65 Hz	120 Hz	165 Hz	200 Hz
C	Tail servo - **center position pulse length**	**user defined**	960 µs		760 µs		1520 µs*
D	Tail servo - **frequency**	**user defined**	50 Hz*	165 Hz	270 Hz	333 Hz	560 Hz
E	Tail servo - **rotor endpoints**	tail stick - move to right endpoint and wait / left endpoint and wait					
F	Tail - **sensor direction**				normal*		reversed
G	Swashplate - **servo centering**	reference position	CH1 center pos.		CH2 center pos.		CH3 center pos.
H	Swashplate - **mixer**	**user defined**	mechanical	90°	120°*	140°	140° (1=1)
I	Swashplate - **servo directions**	nor | rev | rev	nor | nor | rev*		nor | rev | nor		nor | nor | nor
J	Swashplate - **cyclic pitch geometry**	aileron stick – adjust 6° cyclic pitch on the roll axis (blades aligned with fuselage)					
K	**Collective pitch range**	collective stick on max and min position and use tail stick to adjust desired pitch					
L	Swashplate - **cyclic limit**	move aileron, elevator and pitch sticks – adjust max limits with tail stick					
M	Swashplate - **sensor directions**	rev | rev	rev | nor		nor | rev		nor | nor*
N	**Pirouette optimization direction**				normal*		reversed

PARAMETER MENU

(Menu LED is flashing quickly)

	Status-LED:	off	purple	red *flashing*	red	blue *flashing*	blue
A	Swashplate - **cyclic center adjustment**	aileron and elevator stick – reset with tail stick					
B	**Control behavior**	**user defined**	normal	sport*	pro	extreme	**transmitter**
C	Swashplate - **pitching up behavior**	**user defined**	very low	low	medium*	high	very high
D	Tail - **HeadingLock gain**	**user defined**	very low	low	medium*	high	very high
E	**Stick deadband**	**user defined**	1	2*	3	4	5
F	Tail - **torque precompensation (RevoMIX)**	**user defined**	off*	low - nor	high - nor	low - rev	high - rev
G	**Cyclic response**	**user defined**	normal*	slightly increased	increased	high	very high
H	**Pitch boost**	**user defined**	off*	low	medium	high	very high

** Factory setttings*

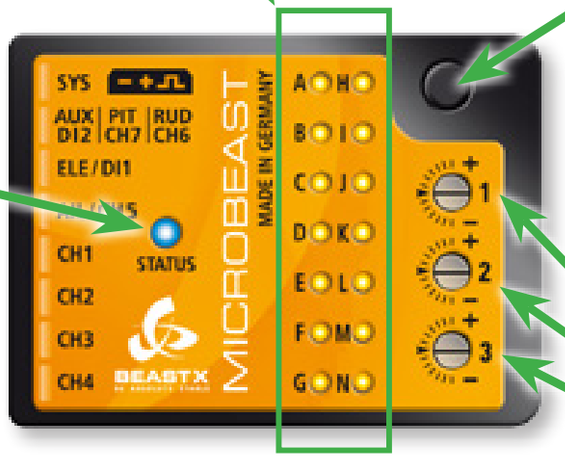
ADJUSTMENT OPTIONS - OVERVIEW

Menu LEDs: *Amount of tail gain Ⓐ=0% to Ⓝ=100%*
(only after powering up or when adjusting the gain)

Button:

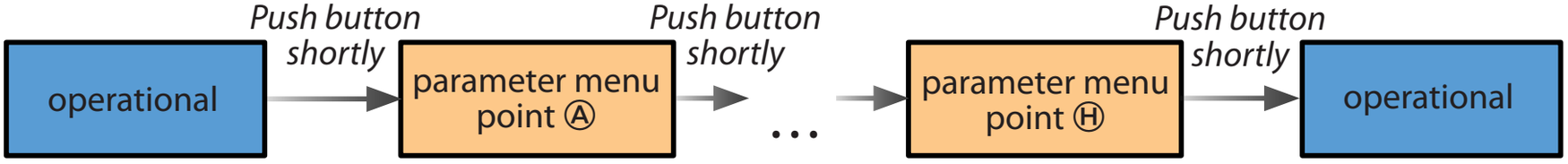
- *to enter setup menu push down several seconds until LED Ⓐ is steady on*
- *to enter Parameters menu push shortly until LED Ⓐ is flashing*

Status-LED:
Tail gyro mode:
off, flashing blue or blue = HeadingLock mode
purple = Normal-Rate mode



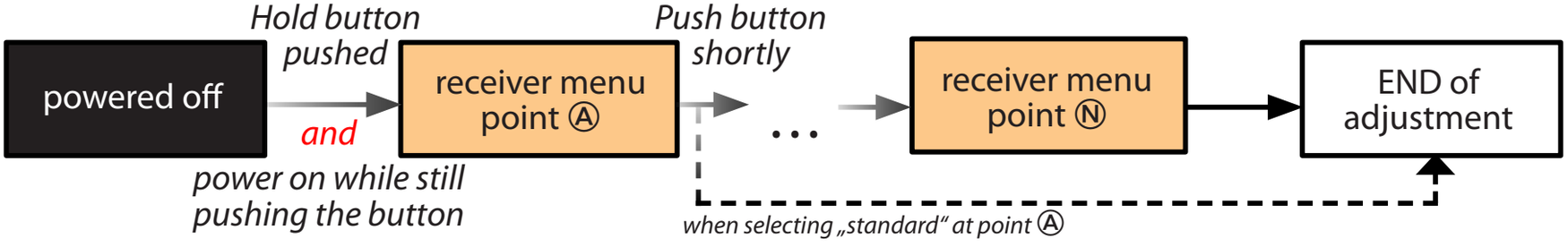
Dial 1*: cyclic gain*
Dial 2*: direct cyclic feed forward*
Dial 3*: tail dynamic*

parameter menu:



setup menu:

receiver menu:



⚠ **Never fly while the MICROBEAST is in setup or parameter menu!** In this condition gyro and stick controls are partially disabled and not used for controling the helicopter.